4.74

Express Mail No: EL676518511US Docket No. 600-1-258DIV Applicants: Darst and Zhang

Appendix

Table 3

```
REMARK coordinates from minimization refinement
 REMARK refinement resolution: 100.0 - 3.2 A
REMARK starting r= 0.3631 free_r= 0.4208
REMARK final r= 0.3466 free_r= 0.4154
 REMARK rmsd bonds= 0.009443 rmsd angles= 1.93913
 REMARK wa= 16.2281
 REMARK target= mlf cycles= 1 steps= 250
REMARK sg= P4(1)2(1)2 a= 200.76 b= 200.76 c= 292.938 alpha= 90 beta= 90 gamma= 90
 REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param
REMARK parameter file 2 : CNS_TOPPAR:ion.param
 REMARK molecular structure file: ../pdb/rnap_m3_gen.mtf
REMARK input coordinates: ../bgroup/bg1.pdb
REMARK reflection file= ../../fobs/scale_b25.cv
 REMARK ncs= restrain ncs file= ../ncs100.def
REMARK B-correction resolution: 8.0 - 3.2

REMARK initial B-factor correction applied to f_scale:

REMARK B11= 0.112 B22= 0.112 B33= -0.224

REMARK B12= 0.000 B13= 0.000 B23= 0.000

REMARK B-factor correction applied to coordinate array B: 0.067

REMARK B-factor correction applied to coordinate array B: 0.067

REMARK bulk solvent: density level= 0.315481 e/A^3, B-factor= 300 A^2

REMARK reflections with |Fobs|/sigma_F < 0.0 rejected

REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected

REMARK number of unobserved reflections (no entry or |F|=0): 5201 (

REMARK number of reflections rejected: 0 (

REMARK number of reflections used: 93706 (

REMARK number of reflections in working set: 88974 (

REMARK number of reflections in test set: 4732 (

CRYSTI 200.760 200.760 292.938 90.00 90.00 90.00 F 41 21 2

REMARK FILENAME="min1_100-3.2.pdb"

REMARK VERSION:0.4a
 REMARK B-correction resolution: 8.0 - 3.2
                                                                                                        98907 ( 100.0 % )
5201 ( 5.3 % )
                                                                                                                         0.0 %
                                                                                                                       94.7 %
                                                                                                                       90.0 %
                                                                                                                         4.8
REMARK VERSION:0.4a
                                                                   67.447
65.047
 ATOM
                     CB ALA A
                                                       1.632
                                                                                73.985
                                                                                             1.00 51.08
                                                       1.498
2.714
ATOM
                             ALA A
                                          б
                                                                                73.318
                                                                                              1.00100.07
ATOM
                     0
                             ALA A
ALA A
                                          6
                                                                   64.811
                                                                                73.324
                                                                                              1.00100.07
ATOM
                     N
                                          6
                                                       1.065
                                                                   65.705
                                                                                 75.679
                                                                                              1.00100.07
                                         6
ATOM
                     CA
                            ALA A
                                                       0.907
                                                                                74.245
                                                                   66.105
                                                                                             1.00100.07
                                                                                 72.515
ATOM
                             ALA A
                                          777778
                                                       0.639
                                                                   64.425
                                                                                              1.00 85.24
 ATOM
                      CA
                            ALA A
                                                       1.075
                                                                   63.413
                                                                                 71.564
                                                                                              1.00 85.24
MOTA
                 8
                     CB ALA A
                                                       1.051
                                                                   62.030
                                                                                72.216
                                                                                              1.00 14.75
MOTA
                      C
                             ALA A
                                                       0.130
                                                                   63.450
                                                                                70.380
                                                                                              1.00 85.24
                     ō
                                                     -0.677
0.242
-0.605
ATOM
ATOM
                                                                   64.368
62.448
62.342
               10
                             ALA A
                                                                                70.252
                                                                                              1.00 85.24
                     N
CA
                             ALA A
               11
                                                                                             1.00100.07
1.00100.07
1.00100.07
                                                                                69.519
ATOM
                                          8
                                                                                68.340
68.673
67.786
                            ALA A
ATOM
                                          8
                                                                   61.513
                            ALA A
                                                     -1.848
ATOM
                             ALA A
                                                     -1.025
                                                                   63.704
                                                                                              1.00100.07
                     O
N
CD
                             ALA A
PRO A
ATOM
ATOM
                                          8
               15
                                                      -2.031
                                                                   64.276
                                                                                68.207
                                                                                              1.00100.07
                                                     -0.248
1.082
-0.561
               16
                                                                   64.248
                                                                                66.841
                                                                                              1.00 56.97
                                          9
                                                                                             1.00100.07
1.00 56.97
ATOM
                            PRO A
                                                                   63.783
65.545
65.969
               17
                                                                                66.416
                      CA
ATOM
                             PRO A
                                                                                66.236
65.640
ATOM
                             PRO A
                                          9
                                                      0.774
                                                                                              1.00100.07
ATOM
                            PRO A
                                                       1.355
                                                                                65.227
                                                                   64.665
                                                                                             1.00100.07
                     C
O
N
CA
CB
                                                                                             1.00 56.97
1.00 56.97
ATOM
                            PRO A
                                                      -1.661
                                                                   65.430
                                                                                65.188
ATOM
ATOM
               22
                                         9
                            PRO A
                                                     -2.702
                                                                   64.838
                                                                                65.445
                            VAL A
                                       10
                                                     -1.419
                                                                   65.997
                                                                                64.011
                                                                                             1.00 83.69
ATOM
                            VAL A
                                        10
                                                                  65.972
67.218
67.287
67.180
                                                     -2.377
-3.291
                                                                                62.907
                                                                                             1.00 83.69
                            VAL A
                                        10
ATOM
                                                                                62.930
                                                                                             1.00 46.48
               26
27
ATOM
                     CG1 VAL A
                                                     -4.123
                                        10
                                                                                             1.00 46.48
1.00 46.48
                                                                                61.657
ATOM
                     CG2 VAL A
                                                     -4.196
                                                                                64.147
MOTA
                            VAL A
                                                     -1.555
                                                                                             1.00 83.69
                                                                   66.004
                                                                                61.625
                     O
N
CA
                            VAL A
PHE A
PHE A
ATOM
ATOM
               29
                                       10
                                                     -0.401
                                                                   66.437
                                                                                             1.00
                                                                                61.637
                                                                                                      83.69
                                                                  65.546
65.576
64.172
               30
                                                     -2.129
-1.393
                                       11
                                                                                60.519
                                                                                             1.00
ATOM
                                       11
                                                                                59.273
                                                                                             1.00 35.63
                     СВ
                                                     -0.988
ATOM
                            PHE A
                                       11
                                                                                58.831
57.943
                                                                                             1.00100.07
ATOM
                            PHE A
                                        11
                                                       0.221
                                                                   64.162
                                                                                             1.00100.07
MOTA
               34
                     CD1 PHE A
                                                       1.403
                                                                   64.764
                                                                                58.368
                                                                                             1.00100.07
ATOM
                     CD2 PHE A
                                       11
                                                       0.178
                                                                   63.597
                                                                                             1.00100.07
                                                                                56.674
                     CE1 PHE A 11
CE2 PHE A 11
MOTA
                                                      2.521
                                                                   64.808
                                                                                57.545
                                                                                             1.00100.07
                                                    1.297
2.470
-2.180
-2.207
MOTA
                                                                   63.635
                                                                                55.838
                                                                                             1.00100.07
                     CZ PHE A
MOTA
               38
                                                                  64.244
66.268
65.819
                                       11
                                                                                56.277
                                                                                             1.00100.07
                     C PHE A
O PHE A
N THR A
CA THR A
MOTA
                                       11
                                                                                58.168
57.012
                                                                                             1.00 35.63
1.00 35.63
1.00 60.55
ATOM
                                       11
ATOM
               41
                                                     -2.821
                                                                   67.371
                                                                                58.546
ATOM
                                                     -3.590
                                                                                             1.00 60.55
                                                                   68.189
                                                                                57.615
MOTA
                     СВ
                            THR A
                                                     -3.781
                                                                   69.612
                                                                                58.175
                                                                                             1.00100.07
ATOM
               44
                     OG1 THR A
                                       12
                                                     -4.149
                                                                   69.541
                                                                                59.557
                                                                                             1.00100.07
MOTA
                     CG2 THR A
                                       12
                                                     -4.858
                                                                   70.350
                                                                                57.402
                                                                                             1.00100.07
ATOM
                            THR A 12
                                                     -2.728
                                                                  68.294
                                                                                56.363
                                                                                             1.00 60.55
```

ATOM ATOM		O THRA		-1.609 -3.227	68.785 67.855	56.430 55.218	1.00 60.55 1.00 47.73	A
ATOM	49 (CA ALA A	. 13	-2.390	67.910	54.029	1.00 47.73	A A
ATOM ATOM		CB ALA A C ALA A		-1.906 -2.941	66.489 68.571	53.705 52.760	1.00 36.60 1.00 47.73	A A
ATOM	52 (ALA A	13	-2.799	68.003	51.683	1.00 47.73	Ā
ATOM ATOM		N THRA CA THRA		-3.530 -4.067	69.764 70.450	52.861 51.671	1.00 59.31 1.00 59.31	A A
ATOM	55 (CB THR A	14	-4.181	72.005	51.888	1.00 61.51	A
ATOM ATOM		OG1 THR A CG2 THR A	14 14	-5.094 -4.686	72.296 72.684	52.959 50.617	1.00 61.51 1.00 61.51	A A
ATOM	58 C		14	-3.168	70.184	50.447	1.00 59.31	Α
ATOM ATOM	59 C 60 N		14 15	-2.124 -3.586	70.818 69.255	50.290 49.582	1.00 59.31 1.00 99.60	A A
ATOM ATOM		CA THR A	15 15	-2.809	68.870	48.396	1.00 99.60	Α
ATOM	63 C	G1 THR A	15	-3.093 -2.281	67.393 67.041	47.999 46.875	1.00 63.08 1.00 63.08	A A
ATOM ATOM	64 C	G2 THR A	15 15	-4.566 -2.928	67.188 69.749	47.645	1.00 63.08	Α
ATOM	66 C	THR A	15	-2.776	70.970	47.139 47.200	1.00 99.60 1.00 99.60	A A
ATOM ATOM	67 N 68 C	GLNA 'A GLNA	16 16	-3.187 -3.299	69.120 69.833	45.997 44.733	1.00 86.73 1.00 86.73	A
ATOM	69 C	B GLN A	16	-2.026	70.664	44.527	1.00 99.43	A A
ATOM ATOM		G GLNA D GLNA	16 16	-1.992 -3.015	71.545 72.660	43.289 43.323	1.00 99.43 1.00 99.43	A A
ATOM	72 0	E1 GLN A	16	-3.247	73.270	44.366	1.00 99.43	A
ATOM ATOM	73 N 74 C	E2 GLN A GLN A	16 16	-3.620 -3.471	72.946 68.828	42.173 43.580	1.00 99.43 1.00 86.73	A A
ATOM	75 O		16	-4.194	67.831	43.700	1.00 86.73	A
ATOM ATOM	76 N 77 C		17 17	-2.807 -2.882	69.100 68.214	42.462 41.319	1.00100.07	A A
ATOM ATOM	78 C 79 O		17 17	-1.503 -1.334	67.656	41.035	1.00100.07	A
ATOM	80 N	ASP A	18	-0.506	66.592 68.399	40.433 41.487	1.00100.07 1.00 44.89	A A
ATOM ATOM	81 C 82 C		18 18	0.888 1.133	68.039 67.484	41.305 39.902	1.00 44.89 1.00100.07	A
ATOM	83 C	G ASP A	18	0.675	68.439	38.815	1.00100.07	A A
ATOM ATOM		D1 ASP A D2 ASP A	18 18	-0.544 1.532	68.692 68.945	38.724 38.054	1.00100.07 1.00100.07	A A
ATOM ATOM	86 C 87 O		18 18	1.577	69.383	41.457	1.00 44.89	Α
ATOM	88 N	HIS A	19	2.127 1.502	69.939 69.919	40.507 42.667	1.00 44. 89 1.00 68.86	A A
ATOM ATOM	89 C.		19 19	$\frac{2.119}{1.223}$	71.197 72.365	42.969 42.553	1.00 68.86 1.00 74.00	A A
ATOM ATOM	91 C	G HIS A	19	0.752	72.307	41.141	1.00 74.00	A
ATOM	93 N	D2 HIS A	19 19	-0.494 1.617	72.351 72.232	40.616 40.074	1.00 74.00 1.00 74.00	A A
ATOM ATOM		E1 HIS A E2 HIS A	19 19	0.924 -0.360	72.234 72.307	38.950 39.252	1.00 74.00 1.00 74.00	A
ATOM	96 C	HIS A	19	2.316	71.310	44.460	1.00 68.86	A A
ATOM ATOM	97 O 98 N	HIS A TYR A	19 20	2.633 2.085	70.332 72.516	45.121 44.976	1.00 68.86 1.00 99.95	A A
ATOM ATOM	99 C	A TYR A	20 20	2.253 1.078	72.802	46.387	1.00 99.95	A
ATOM	101 C	G TYR A	20	1.149	73.590 75.062	46.935 46.652	1.00 74.92 1.00 74.92	A A
ATOM ATOM		D1 TYR A E1 TYR A	20 20	0.943 0.938	75.554 76.932	45.359 45.100	1.00 74.92 1.00 74.92	A
ATOM	104 CI	D2 TYR A	20	1.366	75.980	47.686	1.00 74.92	A A
ATOM ATOM	105 CI	E2 TYR A Z TYR A	20 20	$1.366 \\ 1.147$	77.357 77.826	47.442 46.148	1.00 74.92 1.00 74.92	- A - A
ATOM ATOM	107 OF	H TYR A	20	1.103	79.180	45.901	1.00 74.92	Α
ATOM	108 C 109 O	TYR A TYR A	20 20	2.419 3.529	71.555 71.051	47.216 47.384	1.00 99.95 1.00 99.95	A A
ATOM ATOM	110 N 111 C	GLY A GLY A	21 21	$\frac{1.315}{1.427}$	71.037 69.850	47.726	1.00 45.46	A
ATOM	112 C	GLY A	21	1.726	70.270	48.542 49.963	1.00 45.46 1.00 45.46	A A
ATOM ATOM	113 O 114 N	GLY A GLU A	21 22	2.474 1.159	69.612 71.398	50.678 50.368	1.00 45.46 1.00 35.21	A A
ATOM	115 CA	A GLU A	22	1.366	71.868	51.722	1.00 35.21	Α
ATOM ATOM	116 CE		22 22	0.490 0.755	73.088 74.249	51.988 51.052	1.00 81.30 1.00 81.30	A A
ATOM ATOM	118 CI 119 OF		22 22	-0.177	75.412	51.313	1.00 81.30	Α
ATOM	120 OF		22	-0.505 -0.572	75.638 76.106	52.497 50.348	1.00 81.30 1.00 81.30	A A
ATOM ATOM	121 C 122 O	GLU A GLU A	22 22	0.996 -0.143	70.726 70.283	52.675 52.696	1.00 35.21 1.00 35.21	A A
ATOM	123 N	PHE A	23	1.941	70.213	53.443	1.00 32.98	Α
ATOM ATOM	124 CA 125 CE	B PHE A	23 23	1.585 2.382	69.147 67.904	54.359 54.023	1.00 32.98 1.00 49.28	A A
ATOM ATOM	126 CG	PHE A	23 23	2.300 1.085	67.536 67.579	52.591 51.927	1.00 49.28	Α
ATOM	128 CE	2 PHE A	23	3.426	67.159	51.887	1.00 49.28 1.00 49.28	A A
ATOM ATOM		1 PHE A 2 PHE A	23 23	0.989 3.347	67.251 66.826	50.559 50. 5 17	1.00 49.28 1.00 49.28	A A

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	131 132 1334 1356 1378 1390 1440 1442 1443 1444 1445 1445 1445 1447 1449 1551 1557 1578 1661 1667 1667 1678 1678 1678 1778 17	CZ PHE A C PHE A N PHE A N VAL A CB VAL A CG1 VAL A CG2 VAL A CG2 VAL A CG LEU A CG LEU A CG1 LEU A CG1 LEU A CG1 LEU A CG2 GLU A CG3 GLU A CG4 GLU A CG6 GLU A CG6 GLU A CG7 GLU A CG7 GLU A CG8 GLU A CG8 GLU A CG9 GLU A CG9 GLU A CG9 GLU A CG1 GLU A CG1 GLU A CG1 GLU A CG2 GLU A CG3 PRO A CG4 PRO A CG5 PRO A CG6 PRO A CG6 PRO A CG7 PRO A CG8 PRO A CG9 PR	23 23 23 24 24 24 24 25 25 25 25 25 25 26 26 26 26 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	2.125 1.849 2.958 0.828 0.010 0.513 -0.154 1.8306 3.193 3.742 5.845 0.932 -0.045 1.963 -1.722 -1.411 -1.831 2.210 0.503 -0.154 4.960 -1.258 0.380 -0.016 2.5812 3.624 4.960 5.1905 5.761 6.2624 4.960 5.1905 5.761 6.2666 6.947 5.688 7.998 8.799 8.933 9.418 10.064	66.873 69.610 70.018 69.552 71.190 71.293 69.105 68.389 69.105 68.389 69.105 66.956 66.956 66.956 66.956 67.389 70.341 69.788 70.767 72.153 73.1204 70.181 70.0181	49.855 55.775 56.105 57.979 58.264 59.436 57.043 59.154 59.289 60.0240 61.851 61.936 62.820 62.076 61.540 62.820 62.876 61.540 62.820 62.876 61.540 62.820 62.876 61.540 62.820 62.876 61.540 62.820 62.820 62.820 62.820 62.820 62.820 62.820 62.820 62.820 62.820 62.820 62.820 63.343 64.188 64.439 65.653 63.701 68.971 68.972 68.3869 67.307 68.326 66.971 67.871 68.972 68.3869 67.307 68.326 66.971 67.871 68.972 68.3869 67.307 68.326 66.971 67.871 68.972 68.3869 67.307 68.326 68.3221 67.307	1.00 49.28 1.00 32.98 1.00100.03 1.00100.03 1.00 18.08 1.00 18.08 1.00 18.08 1.00 100.03 1.00 70.43 1.00 70.43 1.00 75.51 1.00 70.43 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 30.49 1.00 46.06 1.00 46.06 1.00 46.06 1.00 46.06 1.00 46.06 1.00 46.06 1.00 46.06 1.00 56.66 1.00	A A A A A A A A A A A A A A A A A A A
ATOM		CB GLU A	-					
ATOM	177	CD GLU A	29	5.952	67.897	74.434	1.00100.07	A
ATOM	179	OE2 GLU A	29	5.441	68.118	75.556	1.00100.07	A
ATOM	181	O GLU A	29	8.707	70.830	70.528	1.00 99.76	A
ATOM	183	CA ARG A	30	8.799	73.609	71.102	1.00 78.24	А
ATOM	185	CG ARG A	30	9.973	75.730	71.982	1.00100.07	A
MOTA	187	NE ARG A	30	10.388	78.166	72.021	1.00100.07	A
ATOM ATOM ATOM	189 190	NH1 ARG A NH2 ARG A	30 30	8.786 11.016	79.418 79.770 80.311	71.722 71.658 71.481	1.00100.07	A A - A
ATOM ATOM	191 192	C ARG A O ARG A	30 30	10.167	73.030 72.509	70.773	1.00 78.24 1.00 78.24	A A
ATOM ATOM	193 194	N GLY A CA GLY A	31 31	10.549	73.125 72.646	69.502	1.00 82.60 1.00 82.60	A A
ATOM ATOM	195 196	C GLY A O GLY A	31 31	11.892 12.842	71.458 70.682	68.174 68.217	1.00 82.60 1.00 82.60	A A
ATOM ATOM	197 198	N PHE A	32 32	10.870 10.843	71.301 70.184	67.346 66.413	1.00 70.02 1.00 70.02	A A
ATOM ATOM	199 200	CB PHE A	32 32	9.910 10.558	69.080 68.106	66.905 67.843	1.00 38.84 1.00 38.84	A
ATOM ATOM	201 202	CD1 PHE A	32 32	10.952	68.494 66.788	69.116	1.00 38.84	A A
ATOM ATOM ATOM	203 204 205	CE1 PHE A CE2 PHE A CZ PHE A	32 32 32	11.500 11.274 11.657	67.571 65.862 66.255	70.013 68.364 69.634	1.00 38.84 1.00 38.84 1.00 38.84	A A A
ATOM ATOM	206 207	C PHE A O PHE A	32 32	10.403	70.661	65.041 64.020	1.00 38.84 1.00 70.02 1.00 70.02	A A
ATOM ATOM	208 209	N GLY A	33	9.507	71.642 72.160	65.019 63.754	1.00 52.43 1.00 52.43	A A
ATOM ATOM	210 211	C GLY A O GLY A	33 33	10.150	72.311 72.368	62.758 61.550	1.00 52.43 1.00 52.43	A A
ATOM ATOM	212 213	N VAL A	34 34	11.371 12.560	72.386	63.279 62.451	1.00 71.93 1.00 71.93	A A
ATOM	214	CB VAL A	34	13.449	73.635	62.897	1.00 70.76	A

ATOM ATOM	215 216 217	CG1 VAL A CG2 VAL A C VAL A	34 34 34	12.679 13.962 13.356	74.928 73.349 71.201	62.857 64.280	1.00 70.76 1.00 70.76 1.00 71.93	A A A
ATOM ATOM	218	O VAL A	34	13.984	70.771	62.560 61.596	1.00 71.93	A
ATOM ATOM	219 220	N THR A	35 35	13.328 14.040	70.584 69.329	63.737 63.952	1.00 58.19 1.00 58.19	A A
ATOM	221	CB THR A	35	13.727	68.750	65.344	1.00 96.03	A
ATOM ATOM	222 223	OG1 THR A	35 35	14.468 14.097	69.479 67.278	66.330 65.416	1.00 96.03	A A
ATOM	224	C THR A	35	13.690	68.295	62.881	1.00 58.19	Α
ATOM ATOM	225 226	O THR A N LEU A	35 36	14.418 12.580	67.31 <i>7</i> 68.509	62.682 62.183	1.00 58.19 1.00 45.88	A A
ATOM	227	CA LEU A	36	12.201	67.580	61.134	1.00 45.88	A
ATOM ATOM	228 229	CB LEU A	36 36	11.105 9.905	66.616 67.087	61.617 62.438	1.00 72.17 1.00 72.17	A A
ATOM	230	CD1 LEU A	36	8.883	65.962	62.562	1.00 72.17	A
ATOM ATOM	231 232	CD2 LEU A	36 36	10.379 11.793	67.502 68.227	63.809 59.820	1.00 72.17 1.00 45.88	A A
ATOM	233	O LEU A	36	12.138	67.725	58.752	1.00 45.88	A
ATOM ATOM	234 235	N GLY A CA GLY A	37 37	11.077 10.649	69.342 69.998	59.888 58.666	1.00100.07	A A
MOTA	236	C GLY A	37	11.797	70.359	57.744	1.00100.07	A
ATOM ATOM	237 238	O GLY A N ASN A	37 38	11.598 13.006	70.576 70.411	56.549 58.289	1.00100.07 1.00 62.51	A A
ATOM	239	CA ASN A	38	14.175	70.767	57.495	1.00 62.51	A
ATOM ATOM	240 241	CB ASN A	38 38	15.222 16.323	71.433 72.078	58.389 57.600	1.00 44.82	A A
ATOM	242	OD1 ASN A	38	17.140	71.392	57.002	1.00 44.82	A
ATOM ATOM	243 244	ND2 ASN A	38 38	16.345 14.810	73.410 69.612	57.582 56.715	1.00 44.82 1.00 62.51	A A
MOTA	245	O ASN A	38	14.766	69.608	55.485	1.00 62.51	A
ATOM ATOM	246 247	N PRO A CD PRO A	39 39	15.403 15.306	68.618 68.316	57.413 58.852	1.00 32.75 1.00 32.40	A A
ATOM	248	CA PRO A	39	16.025	67.496	56.706	1.00 32.75 1.00 32.40	A A
ATOM ATOM	249 250	CB PRO A	39 39	16.090 16.281	66.408 67.167	57.768 59.007	1.00 32.40 1.00 32.40	A
ATOM	251	C PRO A	39	15.153 15.644	67.093	55.542	1.00 32.75	A A
ATOM ATOM	252 253	O PRO A N LEU A	39 40	13.845	66.776 67.112	54.456 55.776	1.00 32.75 1.00 61.43	A
ATOM	254	CA LEU A	40 40	12.903 11.464	66.745 67.042	54.733 55.183	1.00 61.43 1.00 62.67	A A
ATOM ATOM	255 256	CB LEU A	40	11.008	66.513	56.555	1.00 62.67	A
ATOM	257 258	CD1 LEU A CD2 LEU A	40 40	9.508 11.345	66.718 65.039	56.683 56.723	1.00 62.67 1.00 62.67	A A
ATOM ATOM	259	C LEU A	40	13.283	67.576	53.514	1.00 61.43	A
ATOM ATOM	260 261	O LEUA N ALAA	40 41	13.648 13.235	67.027 68.899	52.472 53.674	1.00 61.43 1.00 76.41	A A
ATOM	262	CA ALA A	41	13.570	69.831	52.598	1.00 76.41	A
ATOM ATOM	263 264	CB ALA A	41 41	13.664 14.888	71.271 69.424	53.135 51.965	1.00 17.66 1.00 76.41	A A
ATOM	265	O ALA A	41	14.999	69.288	50.743	1.00 76.41	A
ATOM ATOM	266 267	N ARG A CA ARG A	42 42	15.891 17.195	69.241 68.835	52.811 52.331	1.00 55.18 1.00 55.18	A A
ATOM	268	CB ARG A	42	18.081	68.423	53.505	1.00 50.68	A
ATOM ATOM	269 270	CG ARG A	42 42	18.327 19.592	69.551 70.268	54.476 54.136	1.00 50.68 1.00 50.68	A A
ATOM	271	NE ARG A	42 42	20.706 21.938	69.661 69.590	54.843 54.361	1.00 50.68 1.00 50.68	A A
ATOM ATOM	272 273	CZ ARG A NH1 ARG A	42	22.213	70.085	53.156	1.00 50.68	A
ATOM	274 275	NH2 ARG A	42 42	22.895 16.918	69.034 67.642	55.095 51.432	1.00 50.68 1.00 55.18	- A A
ATOM ATOM	276	O ARG A	42	16.989	67.750	50.209	1.00 55.18	A
ATOM ATOM	277 278	N ILE A	43 43	16.561 16.269	66.520 65.302	52.051 51.317	1.00 20.10 1.00 20.10	A A
ATOM	279	CB ILE A	43	15.440	64.319	52.162	1.00 22.38	A
ATOM ATOM	280 281	CG2 ILE A	43 43	15.404 16.062	62.952 64.166	51.482 53.541	1.00 22.38 1.00 22.38	A A
ATOM	282	CD ILE A	43	17.339	63.403	53.534	1.00 22.38	A
ATOM ATOM	283 284	C ILE A	43 43	15.468 15.890	65.641 65.356	50.066 48.943	1.00 20.10	A A
ATOM	285	N LEU A	44 44	14.310	66.260 66.648	50.281 49.196	1.00 46.55 1.00 46.55	A A
ATOM ATOM	286 287	CA LEU A	44	13.419 12.410	67.689	49.686	1.00 52.98	A
ATOM	288	CG LEU A	44 44	11.436 10.608	67.147 68.269	50.731 51.320	1.00 52.98 1.00 52.98	A A
ATOM ATOM	289 290	CD1 LEU A	44	10.550	66.110	50.077	1.00 52.98	A
ATOM ATOM	291 292	C LEU A O LEU A	44 44	14.189 14.084	67.204 66.692	48.002 46.881	1.00 46.55 1.00 46.55	A A
ATOM	293	N LEU A	45	14.970	68.250	48.247	1.00 40.73	A
ATOM ATOM	294 295	CA LEU A	45 45	15.757 16.322	68.877 70.203	47.192 47.690	1.00 40.73 1.00 25.17	A A
ATOM	296	CG LEU A	45	15.338	71.271	48.150	1.00 25.17	A
ATOM ATOM	297 298	CD1 LEU A CD2 LEU A	45 45	16.096 14.609	72.346 71.867	48.868 46.976	1.00 25.17 1.00 25.17	A A

MOTA	299	C	LEU A	45	16.914	67.985	46.744	1.00 40.73	A
ATOM	300	0	LEU A	45	17.466	68.168	45.660	1.00 40.73	A
ATOM ATOM	301 302	N ÇA	SER A SER A	46 46	17.270 18.375	67.023 66.112	47.592 47.326	1.00 49.02 1.00 49.02	A A
ATOM	303	CB	SER A	46	19.145	65.831	48.619	1.00100.07	A
MOTA	304	OG	SER A	46	19.335	67.007	49.381	1.00100.07	Α
ATOM	305	Ç	SER A	46	17.915	64.782	46.753	1.00 49.02	A
ATOM ATOM	306 307	N O	SER A SER A	46 47	17.264 18.276	64.709 63.726	45.714 47.461	1.00 49.02 1.00 43,33	A A
ATOM	308	CA	SER A	47	17.935	62.367	47.083	1.00 43.33	A
ATOM	309	CB	SER A	47	18.397	61,419	48.196	1.00 99.93	A
ATOM	310	OG	SER A	47	19.629	61.851	48.751	1.00 99.93	A
ATOM	311	C	SER A	47	16.435	62.137	46.802	1.00 43.33	A
ATOM ATOM	312 313	N O	SER A ILE A	47 48	15.624 16.073	62.121 61.959	47.733 45.531	1.00 43.33 1.00 85.43	A A
ATOM	314	CA	ILE A	48	14.684	61.695	45.128	1.00 85.43	A
ATOM	315	CB	ILE A	48	13.746	62.916	45.278	1.00 25.46	Α
ATOM	316	CG2	ILE A	48	12.484	62.694	44.442	1.00 25.46	A
ATOM ATOM	317 318	CG1	ILE A	48 48	13.377 12.100	63.159 62.507	46.745 47.206	1.00 25.46 1.00 25.46	A A
MOTA	319	C	ILE A	48	14.616	61.324	43.660	1.00 25.40	A
ATOM	320	Õ	ILE A	48	14.911	62.151	42.796	1.00 85.43	A
ATOM	321	N	PRO A	49	14.191	60.089	43.354	1.00 54.50	Α
ATOM	322	CD	PRO A	49	13.855	59.002	44.287	1.00 98.88	A
ATOM ATOM	323 324	CA CB	PRO A	49 49	14.090 13.472	59.628 58.243	41.968 42.115	1.00 54.50 1.00 98.88	A A
ATOM	325	CG	PRO A	49	14.029	57.779	43.417	1.00 98.88	A
ATOM	326	C	PRO A	49	13.235	60.555	41.113	1.00 54.50	Α
ATOM	327	0	PRO A	49	12.143	60.947	41.518	1.00 54.50	A
ATOM	328	N	GLY A	50	13.749	60.903	39.937	1.00 44.57	A
ATOM ATOM	329 330	CA C	GLY A GLY A	50 50	13.041 13.338	61.776 61.313	39.021 37.613	1.00 44.57 1.00 44.57	A A
ATOM	331	ō	GLY A	50	13.775	60.182	37.424	1.00 44.57	A
MOTA	332	N	THR A	51	13.134	62.178	36.624	1.00 54.82	A
MOTA	333	CA	THR A	51	13.368	61.808	35.229	1.00 54.82	A
ATOM ATOM	334 335	CB OG1	THR A	51 51	12.086 11.121	61.266 62.326	34.624 34.566	1.00 88.12 1.00 88.12	A A
ATOM	336	CG2	THR A	51	11.528	60.129	35.480	1.00 88.12	Ā
ATOM	337	С	THR A	51	13.793	63.019	34.397	1.00 54.82	Α
MOTA	338	0	THR A	51	13.311	64.123	34.624	1.00 54.82	A
ATOM	339 340	N CA	ALA A ALA A	52 52	14.680 15.134	62.812 63.907	33.425 32.571	1.00 32.19 1.00 32.19	A A
ATOM ATOM	341	CB	ALA A	52	16.008	64.856	33.371	1.00 32.19	A
ATOM	342	Ç	ALA A	52	15.876	63.456	31.313	1.00 32.19	A
MOTA	343	0	ALA A	52	16.463	62.375	31.280	1.00 32.19	A
ATOM	344	N	VAL A	53	15.847	64.298	30.282	1.00 31.84	A
ATOM ATOM	345 346	CA CB	VAL A	53 53	16.510 16.542	64.001 65.251	29.016 28.123	1.00 31.84 1.00 36.17	A A
ATOM	347	CG1		53	17.906	65.430	27.504	1.00 36.17	A
MOTA	348	CG2		53	15.501	65.126	27.036	1.00 36.17	A
MOTA	349	C	VAL A	53	17.930	63.524	29.281	1.00 31.84	A
ATOM ATOM	350 351	O N	VAL A THR A	53 54	18.460 18.562	63.735 62.900	30.365 28.294	1.00 31.84 1.00 38.47	A A
ATOM	352	CA	THR A	54	19.915	62.400	28.495	1.00 38.47	A
ATOM	353	CB	THR A	54	19.866	60.958	28.965	1.00 69.18	A
ATOM	354	OG1	THR A	54	18.933	60.849	30.043	1.00 69.18	A
ATOM ATOM	355 356	CG2 C	THR A	54 54	21.238 20.810	60.497 62.434	29.413 27.264	1.00 69.18 1.00 38.47	A A
ATOM	357	ō	THR A	54	22.038	62.464	27.391	1.00 38.47	A
ATOM	358	N	SER A	55	20.192	62.403	26.082	1.00 48.54	~ A
ATOM	359	CA	SER A	55	20.919	62.424	24.810	1.00 48.54	A
ATOM ATOM	360 361	CB OG	SER A SER A	55 55	21.768 22.265	61.157 61.011	24.684 23.369	1.00 72.28 1.00 72.28	A A
ATOM	362	Ċ	SER A	55	19.970	62.520	23.611	1.00 48.54	A
MOTA	363	0	SER A	55	18.924	61.864	23.582	1.00 48.54	A
MOTA	364	N	VAL A	56	20.331	63.334	22.622	1.00 74.20	A
ATOM ATOM	365 366	CA CB	VAL A	56 56	19.483 18.765	63.476 64.875	21.440 21.357	1.00 74.20 1.00 15.45	A A
ATOM	367		VAL A	56	18.329	65.339	22.717	1.00 15.45	A
ATOM	368	CG2	VAL A	56	19.664	65.896	20.712	1.00 15.45	A
ATOM	369	C	VAL A	56	20.216	63.290	20.120	1.00 74.20	A
ATOM ATOM	370 371	O N	VAL A TYR A	56 57	21.439 19.439	63.384 63.014	20.048 19.079	1.00 74.20 1.00 62.63	A A
ATOM	372	CA	TYR A	57	19.954	62.864	17.731	1.00 62.63	A
MOTA	373	CB	TYR A	57	19.964	61.401	17.266	1.00 52.17	Α
ATOM	374	CG	TYR A	57	20.310	61.202	15.788	1.00 52.17	A
ATOM ATOM	375 376	CD1	TYR A	57 57	20.875 21.190	60.010 59.822	15.335 13.980	1.00 52.17 1.00 52.17	A A
ATOM	377	CD2	TYR A	57	20.065	62.199	14.844	1.00 52.17	A
ATOM	378	CE2	TYR A	57	20.371	62.022	13.492	1.00 52.17	A
ATOM	379	CZ	TYR A	57	20.935	60.837	13.066	1.00 52.17	A
ATOM ATOM	380 381	C OH	TYR A	57 57	21.253 18.991	60.688 63.644	11.732 16.881	1.00 52.17 1.00 62.63	A A
ATOM	382	0	TYR A	57	17.850	63.227	16.690	1.00 62.63	A

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ATOM 1887 COL LLE A 58	ATOM ATOM ATOM ATOM	383 384 385 386	N ILE A CA ILE A CB ILE A CG2 ILE A	58 58 58 58	19.444 18.623 18.849 17.754	64.793 65.611 67.138 67.919	16.399 15.519 15.730 15.058	1.00 40.99 1.00 40.99 1.00 48.67 1.00 48.67	A A A
ATOM 389 C ILE A 58 19.166 65.206 14.148 1.00 40.999 A ATOM 391 O ILE A 58 20.378 65.247 13.930 1.00 40.999 A ATOM 391 N GLU A 59 18.286 64.789 13.241 1.0010.077 A ATOM 392 CA GLU A 59 18.286 64.789 13.241 1.0010.077 A ATOM 393 CB GLU A 59 17.451 64.209 11.008 1.0010.077 A ATOM 395 CD GLU A 59 17.451 64.209 11.008 1.0010.077 A ATOM 395 CD GLU A 59 17.451 64.209 11.008 1.0010.077 A ATOM 396 OEL GLU A 59 17.288 61.420 10.866 1.0010.077 A ATOM 397 OEZ GLU A 59 17.288 61.420 10.866 1.0010.077 A ATOM 398 C GLU A 59 17.288 61.420 10.866 1.0010.077 A ATOM 399 OEL GLU A 59 19.693 65.326 11.243 1.0010.077 A ATOM 399 OEL GLU A 59 19.693 65.326 11.243 1.0010.077 A ATOM 399 OEL GLU A 59 19.693 65.326 11.243 1.00100.077 A ATOM 390 OEL GLU A 59 19.693 65.326 11.243 1.00100.077 A ATOM 390 OEL GLU A 59 19.693 65.326 11.243 1.00100.077 A ATOM 400 IL ASPA A 60 20.947 64.901 11.150 1.0010.077 A ATOM 401 CA ASPA A 60 22.505 65.668 91 0.544 1.00100.077 A ATOM 404 OUL ASPA A 60 22.595 66.6595 10.544 1.00100.077 A ATOM 405 OUL ASPA A 60 22.595 66.6595 10.544 1.00100.077 A ATOM 405 OUL ASPA A 60 22.595 66.6595 10.544 1.00100.077 A ATOM 405 OUL ASPA A 60 22.543 66.839 12.606 1.0081.65 A ATOM 406 C ASPA A 60 22.543 66.839 1.008 11.008 11.075 A ATOM 407 O ASPA A 60 22.543 66.839 11.008 11.008 11.075 A ATOM 407 O ASPA A 60 22.543 66.839 11.008 11.008 11.057 A ATOM 407 O ASPA A 60 22.543 66.839 11.008 11.008 11.007 A ATOM 407 O ASPA A 60 22.543 66.839 11.008 11.0	ATOM	387	CG1 ILE A	58	18.808	67.490	17.209	1.00 48.67	A
NTOM 391 N GLU A 59 18.286 64.789 13.241 1.00100.07 A A A A A A A A A	ATOM	389	C ILE A	58	19.166	65.206	14.148	1.00 40.99	Α
ATOM 393 CB GLU A 59 17.451 64.209 11.008 1.00100.07 A ATOM 395 CD GLU A 59 17.757 63.710 9.695 1.00100.07 A ATOM 395 CD GLU A 59 17.757 63.710 9.299 1.00100.07 A ATOM 395 CD GLU A 59 17.258 61.3710 9.299 1.00100.07 A ATOM 397 ORE 30.00100.00 ATOM 397 ORE 30.00100.00 ATOM 397 ORE 30.00100.00 ATOM 397 ORE 30.00100.00 ATOM 398 CC GLU A 59 16.396 62.285 8.264 1.00100.07 A ATOM 398 CC GLU A 59 16.396 62.285 8.264 1.00100.07 A ATOM 398 CC GLU A 59 16.396 62.285 12.281 1.00100.07 A ATOM 398 CC GLU A 59 16.391 66.302 11.831 1.00100.07 A ATOM 398 CC GLU A 59 16.391 66.302 11.831 1.00100.07 A ATOM 400 N GLU A 59 A 60 21.591 66.502 11.831 1.00100.07 A ATOM 401 CA ASPA 60 21.591 66.699 1.051 41.00100.07 A ATOM 402 CR ASPA 60 21.591 66.699 1.051 41.00100.07 A ATOM 400 ON ASPA 60 21.595 66.699 1.556 1.0081.65 A ATOM 405 ODL ASPA 60 21.295 65.438 7.526 1.0081.65 A ATOM 406 CC ASPA 60 22.959 66.394 11.539 1.0081.65 A ATOM 407 CO ASPA 60 22.959 66.394 11.539 1.0081.65 A ATOM 407 CO ASPA 60 22.959 66.394 11.539 1.00100.07 A ATOM 408 N VAL A 61 22.239 66.507 11.157 1.0087.49 A ATOM 401 CC ASPA 60 CC A									
ATOM 394 CC GLU A 59 17.757 63.710 9.605 1.00100.07 A A A A A A A A A	ATOM	392	CA GLU A	59		64.361		1.00100.07	A
ATOM 396 OEI GLU A 59 17.258 61.420 10.086 1.00100.07 A ATOM 397 OEZ GEDU A 59 119.693 65.326 11.243 1.00100.07 A ATOM 398 C GLU A 59 19.693 65.326 11.243 1.00100.07 A ATOM 398 C GLU A 59 19.693 65.326 11.243 1.00100.07 A ATOM 400 N ASP A 60 22.947 64.901 11.150 1.00100.07 A ATOM 401 CA ASP A 60 22.950 65.699 10.544 1.00100.07 A ATOM 401 CA ASP A 60 22.050 65.699 10.544 1.00100.07 A ATOM 404 CO B ASP A 60 21.595 66.699 10.544 1.00100.07 A ATOM 405 COD ASP A 60 21.595 66.699 1.556 1.00 81.655 A ATOM 405 COD ASP A 60 21.595 66.699 1.556 1.00 81.655 A ATOM 405 COD ASP A 60 21.595 66.394 11.599 1.00 81.655 A ATOM 405 COD ASP A 60 22.959 66.370 81.459 1.00 81.655 A ATOM 405 COD ASP A 60 22.959 66.370 11.599 1.00100.07 A ATOM 407 O ASP A 60 22.543 66.839 12.606 1.00 81.655 A ATOM 407 O ASP A 60 22.543 66.839 12.606 1.00 81.655 A ATOM 408 N VAL A 61 22.959 66.507 11.157 1.00 87.49 A ATOM 409 CA VAL A 61 25.279 67.175 11.944 1.00 87.49 A ATOM 401 CB VAL A 61 25.279 67.175 11.944 1.00 87.49 A ATOM 402 CO VAL A 61 25.279 67.175 11.944 1.00 87.49 A ATOM 410 CB VAL A 61 25.279 67.175 11.944 1.00 87.49 A ATOM 411 CGI VAL A 61 25.479 69.160 10.516 1.00 76.95 A ATOM 412 CO VAL A 61 25.479 69.160 10.516 1.00 76.95 A ATOM 414 C CO VAL A 61 22.405 66.761 13.401 1.00 87.49 A ATOM 416 CA LEU A 62 22.2406 66.761 13.401 1.00 87.49 A ATOM 417 C BLEU A 62 22.2406 66.761 13.401 1.00 87.99 A ATOM 418 C C LEU A 62 22.259 66.761 13.401 1.00 87.99 A ATOM 410 C C LEU A 62 22.259 66.761 13.401 1.00 87.99 A ATOM 410 C C LEU A 62 22.279 66.7175 11.944 1.00 89.97 A ATOM 411 C C LEU A 62 22.279 66.910 10.516 1.00 99.97 A ATOM 412 C C LEU A 62 22.279 66.910 10.516 1.00 99.97 A ATOM 413 C C LEU A 62 22.299 65.175 14.488 1.00 99.97 A ATOM 414 C C LEU A 62 22.299 65.175 14.498 1.00 99.97 A ATOM 415 C C LEU A 62 22.299 65.175 14.498 1.00 99.97 A ATOM 416 C C LEU A 62 29.299 65.175 14.498 1.00 99.97 A ATOM 417 C C LEU A 62 29.299 65.175 14.498 1.00 99.97 A ATOM 418 C C LEU A 62 29.299 65.175 14.498 1.00 99.97 A ATOM 419 C C LEU A 62 29.299 65.175 14.4	ATOM	394	CG GLU A	59	17.757	63.710	9.605	1.00100.07	A
ATOM 398 C GLU A 59 19.693 65.326 11.243 1.00100.07 A ATOM 400 N ASP A 60 20.947 66.492 10.835 1.00100.07 A ATOM 401 CA ASP A 60 20.947 66.492 11.150 1.00100.07 A ATOM 401 CA ASP A 60 21.514 66.695 9.536 1.00 81.65 A ATOM 402 CB ASP A 60 21.514 66.695 9.536 1.00 81.65 A ATOM 403 CG ASP A 60 21.514 66.695 9.536 1.00 81.65 A ATOM 404 0D1 ASP A 60 21.525 65.438 7.526 1.00 81.65 A ATOM 405 OD2 ASP A 60 21.255 65.438 7.526 1.00 81.65 A ATOM 405 OD2 ASP A 60 21.255 65.438 7.526 1.00 81.65 A ATOM 405 CD ASP A 60 22.959 66.198 41.539 1.00100.07 A ATOM 406 CC ASP A 60 22.959 66.194 11.539 1.00100.07 A ATOM 407 O ASP A 60 22.959 66.194 11.539 1.00100.07 A ATOM 407 O ASP A 60 22.959 66.194 11.539 1.00100.07 A ATOM 401 CB ALA 61 24.239 66.501 11.151 1.00 87.49 A ATOM 401 CB ALA 61 24.239 66.501 11.151 1.00 87.49 A ATOM 411 CG VAL A 61 25.121 86.799 11.0010 .07 6.95 A ATOM 412 CG2 VAL A 61 25.5121 66.700 11.151 1.00 76.95 A ATOM 412 CG2 VAL A 61 25.522 66.763 13.401 1.00 87.49 A ATOM 412 CG2 VAL A 61 25.427 66.751 11.410 1.00 87.49 A ATOM 415 N LEU A 62 26.611 66.427 13.808 1.00 69.94 A ATOM 415 C ALA 61 25.222 89.56 6.751 11.400 10.00 87.49 A ATOM 415 N LEU A 62 26.859 66.051 15.151 1.00 87.49 A ATOM 415 C ALA 61 25.322 66.763 13.401 1.00 87.49 A ATOM 415 C ALA 61 25.322 66.751 14.400 10.00 76.95 A ATOM 415 C ALA 61 25.322 66.751 14.400 10.00 76.95 A ATOM 415 C ALA 61 25.323 66.751 15.191 1.00 69.94 A ATOM 415 C ALE 0 A 62 27.936 66.751 14.400 10.00 76.95 A ATOM 415 C ALE 0 A 62 27.936 66.751 14.400 10.00 77.99 A ATOM 410 C ALA 61 25.322 66.751 15.191 1.00 69.94 A ATOM 410 C ALA 61 25.322 66.763 13.401 1.00 87.49 A ATOM 410 C ALA 61 22.25 6.859 66.531 13.801 1.00 69.94 A ATOM 410 C ALA 61 22.25 6.859 66.531 13.801 1.00 69.94 A ATOM 410 C ALA 61 22.25 6.859 66.531 13.801 1.00 69.99 A ATOM 410 C ALA 61 22.25 6.859 66.531 13.801 1.00 69.99 A ATOM 410 C ALA 61 22.25 6.859 66.531 13.801 1.00 69.99 A ATOM 410 C ALA 61 22.25 6.859 66.531 13.801 1.00 69.99 A ATOM 410 C ALA 61 22.25 6.859 66.531 13.801 1.00 69.99 A ATOM 410 C ALA 6									
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ATOM 404 ODI ASP A 60 20.699 66.058 8.429 1.00 81.655 A ATOM 404 ODI ASP A 60 21.295 66.438 7.526 1.00 81.655 A ATOM 405 ODZ ASP A 60 19.457 66.170 8.465 1.00 81.655 A ATOM 406 C ASP A 60 22.549 66.394 11.539 1.00100.07 A ATOM 407 O ASP A 60 22.543 66.839 12.606 1.00100.07 A ATOM 408 N VAL A 61 24.239 66.507 11.157 1.00 87.49 A ATOM 409 CA VAL A 61 25.279 67.175 11.944 1.00 87.49 A ATOM 410 CB VAL A 61 25.279 67.175 11.941 1.00 87.49 A ATOM 410 CB VAL A 61 25.279 67.175 11.941 1.00 87.49 A ATOM 412 CG2 VAL A 61 26.437 69.359 12.288 1.00 76.95 A ATOM 413 C VAL A 61 26.437 69.359 12.288 1.00 76.95 A ATOM 413 C VAL A 61 25.521 66.763 13.401 1.00 87.49 A ATOM 415 N LEU A 62 26.611 66.267 11.410 1.00 87.49 A ATOM 415 N LEU A 62 26.631 66.751 14.140 1.00 87.49 A ATOM 415 N LEU A 62 26.859 66.763 13.401 1.00 87.49 A ATOM 415 N LEU A 62 26.859 66.751 11.440 1.00 87.49 A ATOM 415 N LEU A 62 26.859 66.551 15.191 1.00 69.94 A ATOM 416 CA LEU A 62 27.936 66.951 15.191 1.00 69.94 A ATOM 416 CA LEU A 62 27.936 66.951 15.191 1.00 69.94 A ATOM 410 C VAL A 61 25.322 68.596 66.551 15.91 1.00 69.94 A ATOM 410 C VAL A 61 25.322 68.596 66.551 15.91 1.00 69.94 A ATOM 410 C VAL C C C LEU A 62 27.293 66.951 15.191 1.00 69.99 7 A ATOM 420 CDZ LEU A 62 27.295 66.751 15.280 1.00 99.97 A ATOM 420 CDZ LEU A 62 27.295 67.293 15.966 1.00 69.94 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 422 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 422 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 422 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 422 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 422 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.99 7 A ATOM 421 C LEU A 62 28.936 67.99 7 A AT				_					
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ATOM 408 N VAL A 61 24.239 66.507 11.157 1.00 87.49 A A ATOM 409 CA VAL A 61 25.279 67.175 11.944 1.00 87.49 A A ATOM 410 CB VAL A 61 25.279 67.175 11.944 1.00 87.49 A A ATOM 411 CGI VAL A 61 25.279 67.175 11.944 1.00 76.95 A ATOM 412 CG2 VAL A 61 26.437 69.359 12.288 1.00 76.95 A ATOM 413 C VAL A 61 25.392 66.763 13.401 1.00 87.49 A A ATOM 413 C VAL A 61 25.392 66.763 13.401 1.00 87.49 A A ATOM 414 O VAL A 61 24.406 66.751 14.140 1.00 87.49 A A ATOM 415 N LEU A 62 26.611 66.427 13.808 1.00 69.94 A A ATOM 416 CA LEU A 62 26.616 66.427 13.808 1.00 69.94 A A ATOM 417 CB LEU A 62 27.936 64.991 15.280 1.00 99.97 A ATOM 418 CG LEU A 62 29.229 65.763 15.191 1.00 69.94 A A ATOM 419 CDI LEU A 62 29.229 65.175 14.498 1.00 99.97 A ATOM 420 CD2 LEU A 62 28.936 66.231 15.191 1.00 69.94 A ATOM 420 CD2 LEU A 62 28.936 65.237 11.002 1.00 99.97 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 422 C LEU A 62 27.926 68.411 15.553 1.00 99.97 A ATOM 422 C LEU A 62 27.926 68.411 15.553 1.00 99.97 A ATOM 422 C LEU A 63 27.927 67.034 17.071 1.00 43.02 A ATOM 424 CA HIS A 63 27.987 67.094 17.0971 1.00 43.02 A ATOM 425 CB HIS A 63 29.495 69.617 16.115 1.00 69.94 A ATOM 426 CG HIS A 63 29.691 68.815 17.388 1.0010.07 A ATOM 427 CD2 HIS A 63 29.495 69.617 16.115 1.0010.07 A ATOM 426 CG HIS A 63 29.495 69.617 16.115 1.000 43.02 A ATOM 426 CG HIS A 63 29.495 69.617 16.115 1.000 43.02 A ATOM 427 CD2 HIS A 63 29.495 69.617 16.115 1.0010.007 A ATOM 431 C HIS A 63 29.495 69.617 16.115 1.0010.007 A ATOM 432 C HIS A 63 29.495 69.617 16.115 1.0010.007 A ATOM 432 C HIS A 63 29.495 69.617 16.115 1.0010.007 A ATOM 432 C HIS A 63 29.495 77.375 14.094 1.0010.007 A ATOM 432 C HIS A 63 29.495 77.375 14.094 1.0010.007 A ATOM 432 C HIS A 63 29.495 77.375 14.094 1.0010.007 A ATOM 433 N CELH IN A 63 29.595 77.371 14.094 1.0010.007 A ATOM 430 NEZ HIS A 63 29.495 79.797 71.2097 19.998 71.4094 1.0010.007 A ATOM 430 NEZ HIS A 63 29.495 79.797 71.2097 19.998 71.0010.007 A ATOM 440 C CD LIN A 64 25.209 79.798 71.209 71.3099 71.309 71.3098 71.3098 71.30				60					
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ATOM 413 C VAL A 61 25.392 66.763 13.401 1.00 87.49 A ATOM 414 O VAL A 61 24.406 66.751 14.140 1.00 87.49 A ATOM 415 N LEU A 62 26.611 66.427 13.808 1.00 69.94 A ATOM 416 CA LEU A 62 26.859 66.051 15.191 1.00 69.94 A ATOM 417 CB LEU A 62 27.936 64.971 15.280 1.00 99.97 A ATOM 418 CG LEU A 62 27.936 64.971 15.280 1.00 99.97 A ATOM 419 CD1 LEU A 62 29.229 65.175 14.498 1.00 99.97 A ATOM 420 CD2 LEU A 62 29.239 65.175 14.498 1.00 99.97 A ATOM 421 C LEU A 62 28.936 65.237 13.002 1.00 99.97 A ATOM 422 O LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 423 N HIS A 63 27.976 68.117 15.553 1.00 69.94 A ATOM 424 CA HIS A 63 27.976 67.094 17.071 1.00 43.02 A ATOM 425 CB HIS A 63 28.420 68.187 17.939 1.00 69.94 A ATOM 426 CG HIS A 63 29.495 69.617 16.115 1.0010.07 A ATOM 427 CD2 HIS A 63 30.27 69.439 14.883 1.00100.07 A ATOM 428 ND1 HIS A 63 28.726 70.757 16.339 1.0010.07 A ATOM 429 CE1 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 429 CH HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 420 CH HIS A 63 28.726 69.617 16.115 1.00100.07 A ATOM 421 C LEU A 63 28.936 69.617 16.315 1.00100.07 A ATOM 429 CH HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 420 CH HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 421 C LIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 422 CH HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 423 N HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 420 CH HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 421 C D GUJ A 64 26.243 70.580 19.932 1.0083.05 A ATOM 422 CH HIS A 63 27.399 71.251 14.815 1.00100.07 A ATOM 430 NEZ HIS A 63 27.399 71.251 14.815 1.00100.07 A ATOM 431 C HIS A 63 27.399 71.251 14.815 1.00100.07 A ATOM 432 C D HIS A 63 27.399 71.251 14.805 1.00 18.305 A ATOM 434 CA GUJ A 64 26.243 70.580 19.932 1.00 83.05 A ATOM 437 CD GUJ A 64 25.055 69.622 17.344 1.00 83.05 A ATOM 440 C GUJ A 64 25.050 71.969 19.364 1.00 83.05 A ATOM 440 C GUJ A 64 25.050 71.969 19.364 1.00 83.05 A ATOM 440 C GUJ A 64 25.000 71.323 22.070 1.00 95.17 A ATOM 441 C D GUJ A 64 25.000 71.323 22.070 1.00 18.31 A ATOM 446 C D HIS A		411	CG1 VAL A	61	26.437	69.359	12.288	1.00 76.95	A
ATOM 415 N LEU A 61 ATOM 415 N LEU A 62 ATOM 415 N LEU A 62 ATOM 416 CA LEU A 62 ATOM 417 CB LEU A 62 ATOM 417 CB LEU A 62 ATOM 418 CG LEU A 62 ATOM 419 CDI LEU A 62 ATOM 420 CDI LEU A 62 ATOM 420 CDI LEU A 62 ATOM 421 C BLEU A 62 ATOM 420 CDI LEU A 62 ATOM 421 C BLEU A 62 ATOM 421 C BLEU A 62 ATOM 421 C BLEU A 62 ATOM 422 O LEU A 62 ATOM 421 C BLEU A 62 ATOM 422 O LEU A 62 ATOM 422 O LEU A 62 ATOM 423 N HIS A 63 ATOM 424 C A HIS A 63 ATOM 425 CB HIS A 63 ATOM 426 CG HIS A 63 ATOM 427 CDI HIS A 63 ATOM 427 CDI HIS A 63 ATOM 428 NDI HIS A 63 ATOM 428 NDI HIS A 63 ATOM 429 CEI HIS A 63 ATOM 429 CEI HIS A 63 ATOM 429 CEI HIS A 63 ATOM 430 NEZ BIS A 63 ATOM 431 C BIS A 63 ATOM 432 N HIS A 63 ATOM 433 N GUJ A 64 ATOM 434 N BIS A 63 ATOM 427 CDI HIS A 63 ATOM 428 NDI HIS A 63 ATOM 429 CEI HIS A 63 ATOM 430 NEZ BIS A 63 ATOM 431 C BIS A 63 ATOM 432 N BIS A 63 ATOM 433 N GUJ A 64 ATOM 431 C BIS A 63 ATOM 432 N BIS A 63 ATOM 433 N GUJ A 64 ATOM 434 CA GUJ A 64 ATOM 437 CD GUJ A 64 ATOM 438 NDI HIS A 63 ATOM 439 N BIS A 63 ATOM 430 NEZ BIS A 63 ATOM 431 C BIS A 63 ATOM 432 C BIS A 63 ATOM 433 N GUJ A 64 ATOM 434 CA GUJ A 64 ATOM 435 CB GUJ A 64 ATOM 436 CG GUJ A 64 ATOM 437 CD GUJ A 64 ATOM 438 NDI S GUJ A 64 ATOM 438 NDI S GUJ A 64 ATOM 438 NDI S GUJ A 64 ATOM 439 NEG BUJ A 64 ATOM 430 NEZ BIS A 65 ATOM 431 CB GUJ A 64 ATOM 432 CB GUJ A 64 ATOM 433 N GUJ A 64 ATOM 434 CD GUJ A 64 ATOM 435 CB GUJ A 64 ATOM 436 CG GUJ A 64 ATOM 437 CD GUJ A 64 ATOM 438 NDI S GUJ A 64 ATOM 438 NDI S GUJ A 64 ATOM 439 NDEZ GUJ A 64 ATOM 440 CB GUJ A 64 ATOM 440									
ATOM 416 CA LEU A 62 27.936 64.971 15.291 1.00 69.94 A ATOM 417 CB LEU A 62 27.936 64.971 15.280 1.00 99.97 A ATOM 418 CG LEU A 62 29.229 65.175 14.498 1.00 99.97 A ATOM 419 CD1 LEU A 62 30.181 64.026 14.818 1.00 99.97 A ATOM 420 CD2 LEU A 62 28.936 65.237 13.002 1.00 99.97 A ATOM 421 C LEU A 62 28.936 65.237 13.002 1.00 99.97 A ATOM 422 O LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 423 N HIS A 63 27.987 67.094 17.071 1.00 43.02 A ATOM 424 CA HIS A 63 28.420 68.187 17.939 1.00 43.02 A ATOM 425 CB HIS A 63 29.691 68.855 17.388 1.00100.07 A ATOM 426 CG HIS A 63 29.495 69.617 16.115 1.00100.07 A ATOM 427 CD2 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 428 ND1 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 429 CE1 HIS A 63 28.799 71.251 14.815 1.00100.07 A ATOM 429 CE1 HIS A 63 28.799 71.251 14.815 1.00100.07 A ATOM 421 C HIS A 63 29.652 70.471 14.094 1.00100.07 A ATOM 422 ND HIS A 63 29.552 70.471 14.094 1.00100.07 A ATOM 423 ND HIS A 63 28.799 71.251 14.815 1.00100.07 A ATOM 421 C HIS A 63 29.552 70.71 14.094 1.00100.07 A ATOM 423 ND HIS A 63 29.552 70.71 14.994 1.00100.07 A ATOM 431 C HIS A 63 29.552 70.580 19.932 1.00 43.02 A ATOM 431 C HIS A 63 29.552 70.580 19.932 1.00 43.02 A ATOM 432 O HIS A 63 29.552 70.580 19.932 1.00 83.05 A ATOM 433 N GIJJ A 64 27.235 69.621 19.484 1.00 83.05 A ATOM 434 CA GIJJ A 64 27.235 69.621 19.484 1.00 83.05 A ATOM 435 CB GLU A 64 25.305 71.329 23.587 1.00 95.17 A ATOM 436 CG GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 437 CD GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.587 1.00 95.17 A ATOM 440 C GLU A 64 25.307 71.329 23.200 1.00 1.00 18.31 A ATOM 440 C GLU A 6		414	O VAL A	61	24.406		14.140	1.00 87.49	A
ATOM 418 CG LEU A 62 29.229 65.175 14.498 1.00 99.97 A ATOM 419 CD1 LEU A 62 30.181 64.026 14.818 1.00 99.97 A ATOM 420 CD2 LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 422 O LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 423 N HIS A 63 27.987 67.094 17.071 1.00 43.02 A ATOM 424 CA HIS A 63 27.987 67.094 17.071 1.00 43.02 A ATOM 425 CB HIS A 63 29.691 68.855 17.388 1.00100.07 A ATOM 426 CG HIS A 63 29.691 68.855 17.388 1.00100.07 A ATOM 427 CD2 HIS A 63 30.027 69.439 14.883 1.00100.07 A ATOM 428 ND1 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 429 CE1 HIS A 63 28.799 71.251 14.815 1.00100.07 A ATOM 429 CE1 HIS A 63 29.582 70.471 14.094 1.00100.07 A ATOM 430 NE2 HIS A 63 29.582 70.471 14.094 1.00100.07 A ATOM 431 C HIS A 63 27.319 69.220 18.223 1.00 43.02 A ATOM 432 O HIS A 63 27.319 69.622 17.344 1.00 43.02 A ATOM 433 N GLU A 64 26.233 70.580 19.932 1.00 83.05 A ATOM 434 CA GLU A 64 26.233 70.580 19.932 1.00 83.05 A ATOM 435 CB GLU A 64 26.233 70.639 21.698 10.095.17 A ATOM 436 CG GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 437 CD GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 438 OEI GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 439 OE2 GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 441 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 442 CB HE A 65 27.794 73.409 17.884 1.00 18.31 A ATOM 444 CB HE A 65 27.794 73.409 17.884 1.00 18.31 A ATOM 445 CB PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 446 CD PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 C SHE A 66 25.846 73.092 14.624 1.00 17.45 A ATOM 451 C SHE A 65 29.899 73.227 27.11 14.624 1.00 17.45 A ATOM 452 C SHE A 66 25.866 73.092 14.624 1.00 52.72 A ATOM 453 C SHE A 66 25.866 73.092 14.624 1.00 52.72 A ATOM 454 CD PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 456 C SHE A 66 25.866 73.092 14.624 1.00 52.72 A ATOM 456 C SHE A 66 25.866 73.997 13.288 1.00 43.44 A ATOM 456 C SHE A 66 25.846 73.997 13.228 1.00 48.15 A ATOM 456 C SHE	ATOM	416	CA LEU A	62	26.859	66.051	15.191	1.00 69.94	A
ATOM 420 CD2 LEU A 62 28.936 65.237 13.002 1.00 99.97 A ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 422 O LEU A 62 26.962 68.411 15.553 1.00 69.94 A ATOM 423 N HIS A 63 27.987 67.094 17.071 1.00 43.02 A ATOM 424 CA HIS A 63 28.420 68.411 15.553 1.00 69.94 A ATOM 425 CB HIS A 63 29.691 68.855 17.388 1.00100.07 A ATOM 426 CG HIS A 63 29.691 68.855 17.388 1.00100.07 A ATOM 427 CD2 HIS A 63 30.027 69.439 14.883 1.00100.07 A ATOM 428 ND1 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 428 ND1 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 428 ND1 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 429 CE1 HIS A 63 29.582 70.471 14.094 1.00100.07 A ATOM 430 NE2 HIS A 63 29.582 70.471 14.094 1.00100.07 A ATOM 431 C HIS A 63 27.319 69.220 18.223 1.00 43.02 A ATOM 432 O HIS A 63 26.556 69.622 17.344 1.004 40.02 A ATOM 433 N GLU A 64 27.235 69.621 19.484 1.00 43.02 A ATOM 434 CA GLU A 64 26.233 70.580 19.932 1.00 83.05 A ATOM 435 CB GLU A 64 26.233 70.639 21.463 1.00 95.17 A ATOM 436 CG GLU A 64 25.340 71.323 22.070 1.00 95.17 A ATOM 437 CD GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 430 OE2 GLU A 64 26.553 70.639 21.463 1.00 95.17 A ATOM 430 CG GLU A 64 26.553 70.392 1.463 1.00 95.17 A ATOM 430 CG GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 441 O GLU A 64 25.330 72.919 19.734 1.00 83.05 A ATOM 442 N PHE A 65 27.794 73.409 17.884 1.00 17.45 A ATOM 443 CA PHE A 65 27.477 72.297 18.465 1.00 95.17 A ATOM 440 C GLU A 64 25.330 72.919 19.734 1.00 83.05 A ATOM 441 C GLU A 64 25.300 72.919 19.734 1.00 83.05 A ATOM 440 C GLU A 64 25.300 72.919 19.734 1.00 83.05 A ATOM 440 C GLU A 64 26.566 71.969 19.364 1.00 17.45 A ATOM 440 C GLU A 64 26.566 71.969 19.364 1.00 17.45 A ATOM 440 C GLU A 64 26.86 76.07 7.997 18.84 1.00 17.45 A ATOM 440 C GLU A 64 26.86 76.07 7.997 18.84 1.00 17.45 A ATOM 445 CG PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 445 CG PHE A 65 29.899 73.297 1.00 40.813 A ATOM 445 CG PHE A 65									
ATOM 421 C LEU A 62 27.275 67.293 15.966 1.00 69.94 A ATOM 422 O LEU A 62 26.962 68.411 15.553 1.00 69.94 A ATOM 423 N HIS A 63 27.987 67.094 17.071 1.00 43.02 A ATOM 424 CA HIS A 63 28.420 68.187 17.939 1.00 43.02 A ATOM 425 CB HIS A 63 29.691 68.255 17.388 1.00100.07 A ATOM 426 CG HIS A 63 29.495 69.617 16.115 1.00100.07 A ATOM 427 CD2 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 428 ND1 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 429 CEI HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 430 NE2 HIS A 63 28.726 70.757 16.039 1.00100.07 A ATOM 431 C HIS A 63 29.582 70.471 14.094 1.00100.07 A ATOM 432 O HIS A 63 27.319 69.220 18.223 1.00 43.02 A ATOM 433 N GLU A 64 27.235 69.621 19.484 1.00 43.02 A ATOM 434 CA GLU A 64 26.253 70.639 21.463 1.00 95.17 A ATOM 435 CB GLU A 64 26.253 70.639 21.463 1.00 95.17 A ATOM 436 CG GLU A 64 25.040 71.323 22.070 1.00 95.17 A ATOM 437 CD GLU A 64 25.030 70.265 24.189 1.00 95.17 A ATOM 438 OEI GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 450 CZ PHE A 65 29.709 73.551 19.508 1.00 18.31 A ATOM 450 CZ PHE A 65 29.709 73.551 19.508 1.00 18.31 A ATOM 450 CZ PHE A 65 29.709 73.551 19.508 1.00 18.31 A ATOM 450 CZ PHE A 66 22.268									
ATOM 424 CA HIS A 63	ATOM	421	C LEU A	62	27.275	67.293	15.966	1.00 69.94	A
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ATOM 431 C HIS A 63 27.319 69.220 18.223 1.00 43.02 A ATOM 432 O HIS A 63 26.556 69.622 17.344 1.00 43.02 A ATOM 433 N GLU A 64 27.235 69.621 19.484 1.00 83.05 A ATOM 434 CA GLU A 64 26.243 70.580 19.932 1.00 83.05 A ATOM 435 CB GLU A 64 26.253 70.639 21.463 1.00 95.17 A ATOM 436 CG GLU A 64 25.060 71.323 22.070 1.00 95.17 A ATOM 437 CD GLU A 64 25.059 71.329 23.587 1.00 95.17 A ATOM 438 0E1 GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 439 0E2 GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 440 C GLU A 64 26.506 71.969 19.364 1.00 83.05 A ATOM 441 O GLU A 64 25.830 72.919 19.344 1.00 83.05 A ATOM 442 N PHE A 65 27.477 72.097 18.465 1.00 17.45 A ATOM 444 CA PHE A 65 27.794 73.409 17.884 1.00 17.45 A ATOM 444 CB PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 446 CD1 PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 447 CD2 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 448 CE1 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 449 CE2 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 440 CC2 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 450 CZ PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 450 CZ PHE A 65 29.899 73.297 20.040 1.00 18.31 A ATOM 450 C									
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ATOM 435 CB GLU A 64 26.253 70.639 21.463 1.00 95.17 A ATOM 436 CG GLU A 64 25.040 71.323 22.070 1.00 95.17 A ATOM 437 CD GLU A 64 25.059 71.329 23.587 1.00 95.17 A ATOM 438 OE1 GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 439 OE2 GLU A 64 26.506 71.969 19.364 1.00 95.17 A ATOM 440 C GLU A 64 26.506 71.969 19.364 1.00 83.05 A ATOM 441 O GLU A 64 25.830 72.919 19.734 1.00 83.05 A ATOM 442 N PHE A 65 27.477 72.097 18.465 1.00 17.45 A ATOM 443 CA PHE A 65 27.477 72.097 18.465 1.00 17.45 A ATOM 444 CB PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 445 CG PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 446 CD1 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 447 CD2 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 448 CE1 PHE A 65 29.899 74.295 20.040 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 28.27.463 73.526 16.402 1.00 17.45 A ATOM 450 CZ PHE A 65 28.27.463 73.526 16.402 1.00 17.45 A ATOM 450 CZ PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 451 C PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 452 O PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.800 71.711 14.251 1.00 48.15 A ATOM 457 C SER A 66 25.800 71.711 14.251 1.00 48.15 A ATOM 458 O SER A 66 25.800 71.711 14.251 1.00 48.15 A ATOM 459 N THR A 67 22.292 74.843 12.922 1.00 44.34 A ATOM 450 CZ THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 462 CG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.288 74.178 10.701 1.00 44.34 A	ATOM	433	N GLU A	64	27.235	69.621	19.484	1.00 83.05	A
ATOM 438 OE1 GLU A 64 25.059 71.329 23.587 1.00 95.17 A ATOM 438 OE1 GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 439 OE2 GLU A 64 24.788 72.397 24.176 1.00 95.17 A ATOM 440 C GLU A 64 26.506 71.969 19.364 1.00 83.05 A ATOM 441 O GLU A 64 25.830 72.919 19.734 1.00 83.05 A ATOM 442 N PHE A 65 27.477 72.097 18.465 1.00 17.45 A ATOM 443 CA PHE A 65 27.794 73.409 17.884 1.00 17.45 A ATOM 444 CB PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 445 CG PHE A 65 29.709 73.551 19.508 1.00 18.31 A ATOM 446 CD1 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 447 CD2 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 448 CE1 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 450 CZ PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 28.27.7463 73.526 16.402 1.00 17.45 A ATOM 454 CA SER A 66 26.268 73.079 14.624 1.00 52.72 A ATOM 454 CA SER A 66 25.300 71.711 14.251 1.00 48.15 A ATOM 455 CB SER A 66 25.300 71.711 14.251 1.00 48.15 A ATOM 457 C SER A 66 26.268 73.092 14.624 1.00 52.72 A ATOM 458 O SER A 66 25.300 71.711 14.251 1.00 48.15 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 460 CA THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.077 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.077 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.907 11.221 1.00 44.34 A									
ATOM 438 OE1 GLU A 64 25.330 70.265 24.189 1.00 95.17 A ATOM 439 OE2 GLU A 64 24.788 72.397 24.176 1.00 95.17 A ATOM 440 C GLU A 64 26.506 71.969 19.364 1.00 83.05 A ATOM 441 O GLU A 64 25.830 72.919 19.734 1.00 83.05 A ATOM 442 N PHE A 65 27.477 72.097 18.465 1.00 17.45 A ATOM 443 CA PHE A 65 27.477 73.409 17.884 1.00 17.45 A ATOM 444 CB PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 445 CG PHE A 65 29.899 73.551 19.508 1.00 18.31 A ATOM 446 CD1 PHE A 65 29.899 74.295 20.040 1.00 18.31 A ATOM 447 CD2 PHE A 65 29.873 74.648 20.331 1.00 18.31 A ATOM 448 CE1 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.215 74.487 21.657 1.00 18.31 A ATOM 450 CZ PHE A 65 30.315 74.487 21.657 1.00 18.31 A ATOM 451 C PHE A 65 30.319 73.227 22.170 1.00 18.31 A ATOM 451 C PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 26.268 73.079 16.023 1.00 52.72 A ATOM 454 CA SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 48.15 A ATOM 459 N THR A 67 22.990 73.927 13.288 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 462 CG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 465 O THR A 67 22.389 74.178 10.701 1.00 44.34									
ATOM 441 O GLU A 64 25.830 72.919 19.364 1.00 83.05 A ATOM 441 N PHE A 65 27.477 72.097 18.465 1.00 17.45 A ATOM 442 N PHE A 65 27.794 73.409 17.884 1.00 17.45 A ATOM 443 CA PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 445 CG PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 446 CD1 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 447 CD2 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 448 CE1 PHE A 65 29.873 74.648 20.331 1.00 18.31 A ATOM 448 CE1 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 450 CZ PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 451 C PHE A 65 28.27.463 73.526 16.402 1.00 17.45 A ATOM 453 N SER A 66 26.268 73.079 16.023 1.00 52.72 A ATOM 454 CA SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 26.268 73.079 16.023 1.00 62.72 A ATOM 457 C SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 459 N THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 44.34 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 44.34 A ATOM 465 O THR A 67 22.381 76.976 11.891 1.00 44.34 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A	ATOM	438	OE1 GLU A	64	25.330	70.265	24.189	1.00 95.17	A
ATOM 442 N PHE A 65 27.477 72.097 18.465 1.00 17.45 A ATOM 443 CA PHE A 65 27.794 73.409 17.884 1.00 17.45 A ATOM 444 CB PHE A 65 29.272 73.719 18.095 1.00 18.31 A ATOM 445 CG PHE A 65 29.709 73.551 19.508 1.00 18.31 A ATOM 446 CD1 PHE A 65 29.873 74.648 20.331 1.00 18.31 A ATOM 447 CD2 PHE A 65 29.873 74.648 20.331 1.00 18.31 A ATOM 448 CE1 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.215 74.487 21.657 1.00 18.31 A ATOM 450 CZ PHE A 65 30.319 73.227 22.170 1.00 18.31 A ATOM 451 C PHE A 65 27.463 73.526 16.402 1.00 17.45 A ATOM 452 O PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 26.268 73.079 16.023 1.00 52.72 A ATOM 454 CA SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 457 C SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 458 O SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 460 CA THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 462 CG1 THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 463 CG2 THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 463 CG2 THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 463 CG2 THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 463 CG2 THR A 67 22.920 74.843 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.929 74.228 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.929 74.228 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34	ATOM	440	C GLU A	64	26.506	71.969	19.364	1.00 83.05	A
ATOM 444 CB PHE A 65					27.477	72.097	18.465		
ATOM 445 CG PHE A 65 29.709 73.551 19.508 1.00 18.31 A ATOM 446 CD1 PHE A 65 29.899 72.295 20.040 1.00 18.31 A ATOM 447 CD2 PHE A 65 29.873 74.648 20.331 1.00 18.31 A ATOM 448 CE1 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.215 74.487 21.657 1.00 18.31 A ATOM 450 CZ PHE A 65 30.319 73.227 22.170 1.00 18.31 A ATOM 451 C PHE A 65 27.463 73.526 16.402 1.00 17.45 A ATOM 452 O PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 28.275 74.024 15.619 1.00 17.45 A ATOM 454 CA SER A 66 25.846 73.079 16.023 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.079 14.624 1.00 52.72 A ATOM 456 OG SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 457 C SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 460 CA THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.907 11.221 1.00 44.34 A					27.794 29.272	73.409			
ATOM 448 CE1 PHE A 65 29.873 74.648 20.331 1.00 18.31 A ATOM 448 CE1 PHE A 65 30.243 72.135 21.367 1.00 18.31 A ATOM 449 CE2 PHE A 65 30.215 74.487 21.657 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 451 C PHE A 65 27.463 73.526 16.402 1.00 17.45 A ATOM 452 O PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 26.268 73.079 16.023 1.00 52.72 A ATOM 454 CA SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 456 OG SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 457 C SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 461 CB THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 464 C THR A 67 24.449 75.07 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.07 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.07 11.891 1.00 40.81 A ATOM 464 C THR A 67 24.449 75.07 11.891 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.07 11.891 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.07 11.891 1.00 40.81 A	ATOM	445	CG PHE A	65	29.709	73.551	19.508	1.00 18.31	A
ATOM 450 CZ PHE A 65 30.215 74.487 21.657 1.00 18.31 A ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 451 C PHE A 65 27.463 73.526 16.402 1.00 17.45 A ATOM 452 O PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 26.268 73.079 16.023 1.00 52.72 A ATOM 454 CA SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 456 OG SER A 66 25.300 71.711 14.251 1.00 48.15 A ATOM 457 C SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 460 CA THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 464 CC THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.907 11.221 1.00 44.34 A ATOM 465 O THR A 67 24.449 75.907 11.221 1.00 44.34 A	ATOM	447	CD2 PHE A	65	29.873	74.648	20.331	1.00 18.31	
ATOM 450 CZ PHE A 65 30.399 73.227 22.170 1.00 18.31 A ATOM 451 C PHE A 65 27.463 73.526 16.402 1.00 17.45 A ATOM 452 O PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 26.268 73.079 16.023 1.00 52.72 A ATOM 454 CA SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 456 OG SER A 66 25.800 71.711 14.251 1.00 48.15 A ATOM 457 C SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 461 CB THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 464 C THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 465 O THR A 67 24.449 75.907 11.221 1.00 40.81 A									
ATOM 452 O PHE A 65 28.275 74.024 15.619 1.00 17.45 A ATOM 453 N SER A 66 26.268 73.079 16.023 1.00 52.72 A ATOM 454 CA SER A 66 25.846 73.079 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 456 OG SER A 66 25.300 71.711 14.251 1.00 48.15 A ATOM 456 OG SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 457 C SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 461 CB THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 465 O THR A 67 21.976 74.228 74.178 10.701 1.00 44.34 A									
ATOM 454 CA SER A 66 25.846 73.092 14.624 1.00 52.72 A ATOM 455 CB SER A 66 25.300 71.711 14.251 1.00 48.15 A ATOM 456 OG SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 457 C SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 458 O SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 460 CA THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.920 74.843 12.922 1.00 40.81 A ATOM 462 OG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.07 11.221 1.00 40.81 A ATOM 464 C THR A 67 24.449 75.07 11.221 1.00 40.81 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A	ATOM	452	O PHE A	65	28.275	74.024	15.619	1.00 17.45	A
ATOM 456 OG SER A 66 26.072 70.662 14.825 1.00 48.15 A ATOM 457 C SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 460 CA THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 23.470 76.169 12.362 1.00 40.81 A ATOM 462 OG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 464 C THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A								1.00 52.72	
ATOM 457 C SER A 66 24.768 74.139 14.351 1.00 52.72 A ATOM 458 O SER A 66 24.640 75.117 15.084 1.00 52.72 A ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 460 CA THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 22.920 74.843 12.922 1.00 40.81 A ATOM 462 OG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 464 C THR A 67 21.976 74.228 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A									
ATOM 459 N THR A 67 23.996 73.927 13.288 1.00 44.34 A ATOM 460 CA THR A 67 22.920 74.843 12.922 1.00 44.34 A ATOM 461 CB THR A 67 23.470 76.169 12.362 1.00 40.81 A ATOM 462 OG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 464 C THR A 67 21.976 74.228 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A	ATOM	457	C SER A	66	24.768	74.139	14.351	1.00 52.72	A
ATOM 461 CB THR A 67 23.470 76.169 12.362 1.00 40.81 A ATOM 462 OG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 464 C THR A 67 21.976 74.228 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A	ATOM	459	N THR A	67	23.996	73.927	13.288	1.00 44.34	A
ATOM 462 OG1 THR A 67 22.381 76.976 11.891 1.00 40.81 A ATOM 463 CG2 THR A 67 24.449 75.907 11.221 1.00 40.81 A ATOM 464 C THR A 67 21.976 74.228 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A									
ATOM 464 C THR A 67 21.976 74.228 11.887 1.00 44.34 A ATOM 465 O THR A 67 22.298 74.178 10.701 1.00 44.34 A	ATOM	462	OG1 THR A	67	22.381	76.976	11.891	1.00 40.81	A
	ATOM	464	C THR A	67	21.976	74.228	11.887	1.00 44.34	A

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ATOM	467	CA ILE A	68	19.825	73.136	11.444	1.00 68.89	A
ATOM ATOM	468 469	CB ILE A	68 68	18.866 18.420	72.182 71.048	12.216 11.306	1.00 47.46 1.00 47.46	A A
ATOM	470	CG1 ILE A	68	19.574	71.570	13.424	1.00 47.46	A
ATOM ATOM	471 472	CD ILE A	68 68	18.671 18.962	70.752 74.172	14.283 10.719	1.00 47.46 1.00 68.89	A A
ATOM	473	O ILE A	68	18.215	74.927	11.348	1.00 68.89	A
ATOM ATOM	474 475	N PRO A	69 69	19.035 19.75 4	74.189 73.147	9.375 8.619	1.00 69.72 1.00 34.85	A A
ATOM	476	CA PRO A	69	18.316	75.088	8.454	1.00 69.72	A
ATOM	477	CB PRO A	69	18.767	74.604	7.077 7.306	1.00 34.85 1.00 34.85	A A
ATOM ATOM	478 479	CG PRO A	69 69	18.999 16.800	73.140 75.116	8.569	1.00 69.72	A
ATOM	480	O PRO A	69	16.187	74.160	9.033	1.00 69.72	A
ATOM ATOM	481 482	N GLYA	70 70	16.212 14.772	76.222 76.388	8.116 8.17 4	1.00 92.95 1.00 92.95	A A
ATOM	483	C GLY A	70	14.338	76.526	9.618	1.00 92.95	A
ATOM	484	O GLY A N VAL A	70 71	13.167 15.296	76.771 76.377	9,905 10.528	1.00 92.95 1.00 56.58	A A
ATOM ATOM	485 486	N VALA CA VALA	71	15.033	76.454	11.955	1.00 56.58	A
ATOM	487	CB VAL A	71	15.624	75.233	12.690	1.00 36.59	A
ATOM ATOM	488 489	CG1 VAL A	71 71	15.017 15.422	75.097 73.988	14.074 11.876	1.00 36.59 1.00 36.59	A A
ATOM	490	C VAL A	71	15.712	77.683	12.536	1.00 56.58	A
ATOM ATOM	491 492	O VAL A N LYS A	71 72	16.927 14.928	77.701 78.700	12.689 12.869	1.00 56.58 1.00 65.96	A A
ATOM	493	CA LYS A	72	15.459	79.925	13.473	1.00 65.96	A
ATOM	494	CB LYS A	72	14.290	80.823	13.902 14.895	1.00 99.92 1.00 99.92	A
ATOM ATOM	495 496	CG LYS A	72 72	14.647 13.387	81.927 82.534	15.506	1.00 99.92 1.00 99.92	A A
ATOM	497	CE LYS A	72	13.686	83.308	16.781	1.00 99.92	A
ATOM ATOM	498 499	NZ LYS A C LYS A	72 72	12.437 16.346	83.682 79.620	17.502 14.688	1.00 99.92 1.00 65.96	A A
ATOM	500	O LYS A	72	17.428	80.197	14.840	1.00 65.96	A
ATOM	501	N GLUA	73	15.868	78.730	15.555 16.744	1.00 56.97 1.00 56.97	A A
ATOM ATOM	502 503	CA GLUA CB GLUA	73 73	16.607 15.973	78.315 77.066	17.361	1.00 56.97 1.00 64.77	A
ATOM	504	CG GLU A	73	15.259	77.297	18.646	1.00 64.77	A
ATOM ATOM	505 506	CD GLU A OE1 GLU A	73 73	14.292 13.611	78.429 78.489	18.525 17.484	1.00 64.77 1.00 64.77	A A
ATOM	507	OE2 GLU A	73	14.205	79.254	19.460	1.00 64.77	A
ATOM ATOM	508 509	C GLUA O GLUA	73 73	18.028 18.369	77.951 77.943	16.344 15.163	1.00 56.97 1.00 56.97	A A
ATOM	510	N ASP A	74	18.840	77.627	17.344	1.00 56.37	A
ATOM	511	CA ASP A	74	20.227	77.213	17.143	1.00 56.37	A
ATOM ATOM	512 513	CB ASP A	74 74	21.111 22.589	77.836 77.652	18.232 17.969	1.00 68.46 1.00 68.46	A A
ATOM	514	OD1 ASP A	74	23.082	76.509	18.057	1.00 68.46	A
ATOM ATOM	515 516	OD2 ASP A	74 74	23.260 20.176	78.663 75.695	17.675 17.301	1.00 68.46 1.00 56.37	A A
ATOM	517	O ASP A	74	19.332	75.039	16.700	1.00 56.37	A
ATOM	518 519	N VALA CA VALA	75 75	21.064 21.052	75.132 73.694	18.107 18.331	1.00 47.58 1.00 47.58	A A
ATOM ATOM	520	CB VAL A	75	22.004	72.915	17.374	1.00 71.89	A
ATOM	521 522	CG1 VAL A	75 75	21.598	73.139	15.923	1.00 71.89 1.00 71.89	A A
ATOM ATOM	523	CG2 VAL A	75 75	23.438 21.480	73.342 73.467	17.593 19.761	1.00 47.58	A
MOTA	524	O VAL A	75	21.212	72.415	20.341	1.00 47.58	A
ATOM ATOM	525 526	N VALA CA VALA	76 76	22.150 22.606	74.470 74.387	20.325 21.705	1.00 47.65 1.00 47.65	- A A
ATOM	527	CB VAL A	76	23.711	75.429	22.029	1.00 53.08	A
ATOM ATOM	528 529	CG1 VAL A	76 76	24.565 24.561	74.932 75.700	23.186 20.806	1.00 53.08 1.00 53.08	A A
ATOM	530	C VAL A	76	21.361	74.716	22.502	1.00 47.65	A
MOTA	531	O VAL A	76 77	20.969 20.738	73.976 75.833	23.415 22.118	1.00 47.65 1.00 51.13	A A
ATOM ATOM	532 533	N GLUA CA GLUA	77	19.512	76.305	22.750	1.00 51.13	A
ATOM	534	CB GLU A	77	18.912	77.446	21.935	1.00 99.63	A
ATOM ATOM	535 536	CG GLU A	77 77	18.429 17.254	78.606 79.306	22.766 22.125	1.00 99.63 1.00 99.63	A A
ATOM	537	OE1 GLU A	77	16.118	78.791	22.241	1.00 99.63	A
ATOM ATOM	538 539	OE2 GLU A C GLU A	77 77	17.469 18.566	80.362 75.106	21.493 22,752	1.00 99.63 1.00 51.13	A A
ATOM	540	O GLU A	77	18.148	74.627	23.805	1.00 51.13	A
ATOM	541	N ILE A	78 70	18.239 17.374	74.623 73.468	21.557 21.425	1.00 41.27 1.00 41.27	A A
ATOM ATOM	542 543	CA ILE A	78 78	17.596	72.782	20,080	1.00 41.27	A
ATOM	544	CG2 ILE A	78	16.831	71.480	20.035	1.00 44.04	Α
ATOM ATOM	545 546	CG1 ILE A	78 78	17.197 17.541	73.735 73.234	18.951 17.560	1.00 44.04 1.00 44.04	A A
ATOM	547	C ILE A	78	17.786	72.519	22.530	1.00 41.27	A
ATOM	548	O ILE A	78 79	16.984 19.049	72.174 72.118	23,385 22,538	1.00 41.27 1.00 42.42	A A
ATOM ATOM	549 550	N ILE A CA ILE A	79	19.049	71.211	23.576	1.00 42.42	A

ATOM CB ILE A 21.013 551 71.013 23.586 1.00 24.837 ATOM 552 CG2 ILE A 79 21.426 1.00 35.69 70.226 ATOM 553 CG1 ILE A 79 79 21.450 70.237 68.792 22.349 1.00 35.69 А CD 554 ATOM ILE A 21.040 22.370 1.00 35.69 Α ATOM 555 С ILE A 79 19.089 18.740 71.752 24.927 25.811 42.42 1.00 ATOM 556 ILE A 79 70.980 1.00 42.42 LEU A ATOM 557 73.074 25.084 1.00 70.11 26.354 70.11 ATOM 558 CA LEU A 80 18.779 73.710 1.00 19.257 20.732 75.173 75.506 ATOM 559 CB LEU A 80 26.380 1.00 34.05 560 80 26.083 ATOM CG LEU A 1.00 34.05 ATOM 561 CD1 LEU A 20.959 26.339 34.05 80 76.988 1.00 ATOM 562 CD2 LEU A 80 21.677 74.686 26.952 1.00 34.05 563 17.276 73.644 26.654 1.00 70.11 ATOM LEU A ATOM 564 0 LEU A 80 16.892 73.356 27.789 1.00 70.11 ASN A 73.924 73.826 ATOM 565 N 81 16.423 25.665 1.00 34.19 ATOM 566 CA ASN A 81 14,981 25.903 1.00 34.19 ATOM 567 CB ASN A 81 14.178 74.115 24.622 1.00 38.34 ATOM 568 CG ASN A 81 14.037 75.611 24.326 1.00 38.34 ATOM 569 OD1 ASN A 81 14.858 76.211 23.631 1.00 ATOM 570 ND2 ASN A 81 12.984 14.754 76.215 24.859 1.00 38.34 571 ASN A 72.381 72.100 26.350 27.508 1.00 MOTA 81 34.19 14.429 ATOM 572 ASN A 81 1.00 34.19 Α ATOM 573 LEU A 82 14.976 71.473 25.407 1.00 59.07 ATOM 574 CA LEU A 14.849 70.030 25.594 1.00 59.07 15.567 15.719 15.984 ATOM 575 CB LEU A 82 69.353 24.409 1.00 58.84 LEU A АТОМ 576 CG 82 67.852 24.181 22.702 1.00 58.84 CD1 LEU A ATOM 577 82 67.607 1.00 58.84 LEU A 16.848 67.312 ATOM 578 CD2 82 25.036 1.00 58.84 69.563 ATOM 579 LEU A 82 15.404 26.944 1.00 59.07 ATOM 580 0 LEU A 82 15.077 68.478 27.415 1.00 59.07 ATOM 581 N LYS A 83 16.238 70.389 27.565 1.00 40.47 CA 83 16.819 ATOM 582 70.056 28,860 1.00 40.47 LYS A 17.902 ATOM 583 CB 83 71.066 29.260 1.00 71.50 ATOM 584 LYS A 19.280 CG 83 70.837 28.666 1.00 71.50 ATOM 585 CDLYS A 83 20.261 71.900 29.148 1.00 71.50 20.472 21.299 15.739 ATOM 586 CE LYS A 83 71.818 30.645 1.00 71.50 Α LYS A NZ 83 1.00 ATOM 587 72.948 31.147 29.928 71 50 A LYS A 588 83 70.082 1.00 40.47 ATOM C LYS A 15.774 30.885 1.00 40.47 ATOM 589 69.300 14.791 ATOM 590 N GLU A 84 71.002 29.767 1.00100.07 GLU A GLU A GLU A ATOM 591 CA 84 13.698 71.163 30.719 1.00100.07 72.561 73.587 13.113 13.981 1.00 99.88 1.00 99.88 ATOM 592 CB 84 30.617 ATOM 31.279 593 CG 84 594 ĊĎ GLU A 13.730 74.954 30.735 ATOM 1.00 99.88 12.552 14.710 12.599 ATOM 595 OE1 GLU A 84 75.369 30.714 1.00 99.88 1.00 99.88 GLU A 75.609 70.134 30.326 ATOM 596 OE2 84 ATOM 597 GLU A 84 1.00100.07 С 598 GLU A 12.089 ATOM 69.613 31.550 1.00100.07 599 LEU A 69.856 29.311 1.00 ATOM 85 12.229 31.70 ATOM ATOM LEU A 1.00 31.70 600 CA85 11.204 68.863 29.023 601 11.528 27.705 27.364 1.00 36.11 CB 85 68.157 ATOM 602 CG LEU A 85 10.661 66.947 1.00 36.11 603 ATOM CD1 LEU A 9.209 67.333 27.506 1.00 36.11 ATOM 604 CD2 LEU A 85 10.950 66.480 25.947 1.00 36.11 11.097 12.002 9.988 ATOM 605 C LEU A 85 67.819 30.138 1.00 31.70 Α 606 0 LEU A 85 67.003 ATOM 30.332 1.00 31.70 Α 30.872 ATOM 607 VAL A 86 67.867 1.00 64.02 66.938 ATOM 608 VAL A 86 9.746 31.967 1.00 64.02 9.075 7.761 8.865 ATOM 609 CB VAL A 86 67.640 33.155 1.00 43.35 CG1 CG2 VAL A 32.738 34.267 ATOM 610 611 86 68.241 1.00 43.35 1.00 43.35 Α ATOM 86 66.662 Α VAL A 8.889 ATOM 86 65.760 31.528 1.00 64.02 Α ATOM 613 0 VAL A 86 7.912 65.945 30.798 1.00 64.02 31.969 31.584 30.760 614 615 VAL A 87 87 9.247 8.491 ATOM N 64.551 1.00 31.91 1.00 CA MOTA 63,355 31.91 616 CB VAL A 87 9.341 62.361 1.00 48.32 ATOM ATOM 617 CG1 VAL A 87 9.363 62.762 29.307 1.00 10.751 7.925 ATOM 618 CG2 VAL A 87 62.321 31.304 1.00 48.32 87 VAL A 32.752 33.784 32.569 ATOM 619 62.575 1.00 31.91 MOTA 620 0 VAL A 87 8.558 62.430 1.00 31.91 6.707 62.091 1.00 ATOM 621 ARG A 88 62.79 1.00 622 ARG A 88 6.028 61.273 33.557 ATOM CA ATOM 623 CB ARG A 88 4.565 61.715 33.684 1.00 68.82 3.661 2.337 34.489 34.886 ATOM 624 CG ARG A 88 60.775 1.00 68.82 ARG A 1.00 88 61.461 ATOM 625 CD 68.82 626 NE ARG A 88 1.402 60.584 35.594 1.00 68.82 ATOM ARG A 1.705 59.860 36.671 ATOM 627 88 1.00 37.239 37.184 MOTA 628 NH1 ARG A 88 0.785 59.099 1.00 68.82 ATOM 629 NH2 ARG A 88 2.928 59.880 1.00 68.82 630 ARG A 88 6.131 1.00 62.79 ATOM C 59.906 32,892 Α MOTA 631 ARG A 88 5.583 59.699 1.00 62.79 31.811 Α ATOM 632 PHE A 6.842 58.980 33.524 1.00 88.02 Α ATOM 633 CA PHE A 89 7.055 57.662 32.938 1.00 88.02 ATOM 634 CB PHE A 89 8.420 57.135 33,409 1.00 36.30

ATOM	635	CG PHE A	89	9.547	57.385	32.429	1.00 36.30	A
ATOM	636	CD1 PHE A	89	9.441	58.369	31.444	1.00 36.30	A
ATOM	637	CD2 PHE A		10.717	56.620	32.483	1.00 36.30	A
ATOM	638	CE1 PHE A	89	10.493	58.578	30.514	1.00 36.30	A
ATOM	639	CE2 PHE A		11.769	56.822	31.562	1.00 36.30	A
ATOM	640	CZ PHE A		11.655	57.800	30.582	1.00 36.30	A
ATOM	641	C PHE A		5.986	56.568	33.069	1.00 88.02	Ā
ATOM	642	O PHE A	89	5.719	55.858	32.099	1.00 88.02	A
ATOM	643	N LEU A	90	5.375	56.428	34.240	1.00100.03	A
ATOM	644	CA LEU A	90	4.355	55.398	34.452	1.00100.03	A
MOTA	645	CB LEU A	90	3.385	55.335	33.268	1.00 43.38	A
ATOM	646	CG LEU A	90	2.587	56.623	33.203	1.00 43.38	A
ATOM	647	CD1 LEU A	90	1.514	56.436	31.972	1.00 43.38	
ATOM	648	CD2 LEU A	90	1.932	57.016	34.341	1.00 43.38	A A
ATOM	649	C LEU A	90	4.990	54.028	34.683	1.00100.03	A
ATOM	650	O LEU A	90	5.794	53.853	35.600	1.00100.03	Ā
	651		91	4.627				
ATOM ATOM	652	N ASP A CA ASP A	91	5.131	53.064 51.692	33.845	1.00 82.00	A
ATOM	653	CB ASP A	91	5.334	51.115	33.935	1.00 82.00	A
ATOM	654	CG ASP A	91	6.270	51.954	32.531 31.685	1.00100.07	A
ATOM	655	OD1 ASP A	91	7.485			1.00100.07	A
ATOM	656	OD1 ASP A	91	5.783	51.991 52.582	31.985 30.717	1.00100.07	A
ATOM	657	C ASP A	91	6.391	51.442			A
ATOM	658	O ASP A	91	7.498	51.752	34.752 34.318	1.00 82.00	A
	659	N PRO A	92	6.230	50.878		1.00 82.00	A
ATOM	660	CD PRO A	92	4.953		35.958	1.00 75.04	A
ATOM	661	CA PRO A	92	7,356	50.554	36.616	1.00100.07	A
ATOM ATOM	662		92	6.721	50.571	36.837	1.00 75.04	A
ATOM					49.688 50.328	37.893	1.00100.07	A
ATOM	663 664	CG PRO A	92 92	5.374		38.051	1.00100.07	A
ATOM		C PRO A		8.396	49.840	36.007	1.00 75.04	A
ATOM ATOM	665	O PRO A	92 93	8.216	48.664	35.655	1.00 75.04	A
	666	N ARG A		9.457 10.584	50.578	35.680	1.00100.07	A
ATOM	667 668	CA ARG A	93 93		50.115	34.869	1.00100.07	A
ATOM		CB ARG A		10.444	48.626	34.537	1.00100.07	A
ATOM	669 670	CG ARG A	93 93	11.763	47.913	34.422 35.641	1.00100.07	A
ATOM	671	CD ARG A NE ARG A	93	12.626 13.974	48.210		1.00100.07	A
ATOM ATOM	672	CZ ARG A	93	15.043	47,675	35.493	1.00100.07	A
ATOM	673	NH1 ARG A	93	14.919	48.171 49.220	36.105	1.00100.07	A
ATOM	674	NH2 ARG A	93	16.235	47.624	36.909 35.903	1.00100.07	A
ATOM	675	C ARG A	93	10.233	50.940	33.581	1.00100.07	A A
ATOM	676	O ARG A	93	9.553	51.079	32,934	1.00100.07	A
ATOM	677	N TRP A	94	11.740	51.503	33.210	1.00100.07	A
MOTA	678	CA TRP A	94	11.794	52.301	31.987	1.00 75.71	A
ATOM	679	CB TRP A	94	10.774	53.442	32.089	1.00 99.15	A
ATOM	680	CG TRP A	94	9.927	53.683	30.853	1.00 99.15	A
ATOM	681	CD2 TRP A	94	9.912	52.919	29.642	1.00 99.15	A
ATOM	682	CE2 TRP A	94	8.990	53.540	28.769	1.00 99.15	A
ATOM	683	CE3 TRP A	94	10.585	51.772	29.207	1.00 99.15	A
ATOM	684	CD1 TRP A	94	9.035	54.699	30.666	1.00 99.15	A
ATOM	685	NE1 TRP A	94	8.472	54.624	29.421	1.00 99.15	A
ATOM	686	CZ2 TRP A	94	8.726	53.055	27.485	1.00 99.15	A
ATOM	687	CZ3 TRP A	94	10.323	51.289	27.926	1.00 99.15	A
ATOM	688	CH2 TRP A	94	9.399	51.932	27.081	1.00 99.15	A
MOTA	689	C TRP A	94	13.181	52.860	31.622	1.00 75.71	A
ATOM	690	O TRP A	94	14.204	52.300	32.021	1.00 75.71	Α
ATOM	691	N ARG A	95	13.168	53.951	30.846	1.00 54.02	A
ATOM	692	CA ARG A	95	14.330	54.700	30.336	1.00 54.02	A
ATOM	693	CB ARG A	95	15.670	54.103	30.811	1.00100.06	A
MOTA	694	CG ARG A	95	15.943	54.246	32.325	1.00100.06	- A
ATOM	695	CD ARG A	95	17.394	53.909	32.698	1.00100.06	A
MOTA	696	NE ARG A	95	17.546	53.545	34.111	1.00100.06	A
MOTA	697	CZ ARG A	95	18.714	53.439	34.748	1.00100.06	Α
MOTA	698	NH1 ARG A	95	19.855	53.674	34.114	1.00100.06	Α
ATOM	699	NH2 ARG A	95	18.745	53.077	36.025	1.00100.06	A
ATOM	700	C ARG A	95	14.278	54.722	28.811	1.00 54.02	A
MOTA	701	O ARG A	95	15.299	54.555	28.157	1.00 54.02	A
ATOM	702	N THR A	96	13.080	54.976	28.270	1.00 42.25	Α
MOTA	703	CA THR A	96	12.785	54.978	26.817	1.00 42.25	A
MOTA	704	CB THR A	96	11.251	54.979	26.574	1.00 64.26	A
MOTA	705	OG1 THR A	96	10.987	54.595	25.221	1.00 64.26	A
ATOM	706	CG2 THR A	96	10.659	56.357	26.820	1.00 64.26	A
ATOM	707	C THR A	96	13.397	56.022	25.870	1.00 42.25	A
MOTA	708	O THR A	96	14.484	56.530	26.109	1.00 42.25	A
MOTA	709	N THR A	97	12.691	56.311	24.780	1.00 37.72	A
ATOM	710	CA THR A	97	13.146	57.277	23.781	1.00 37.72	Α
MOTA	711	CB THR A	97	13.999	56.625	22.731	1.00 16.48	A
ATOM	712	OG1 THR A	97	15.101	55.984	23.369	1.00 16.48	A
ATOM	713	CG2 THR A	97	14.492	57.667	21.735	1.00 16.48	A
ATOM	714	C THR A	97	12.004	57.939	23.029	1.00 37.72	A
ATOM	715	O THR A	97	10.949	57.347	22.842	1.00 37.72	A
MOTA	716	N LEU A	98	12.218	59.158	22.562	1.00 50.75	A
ATOM	717	CA LEU A	98	11.151	59.825	21.859	1.00 50.75	A
MOTA	718	CB LEU A	98	10.672	61.041	22.648	1.00 14.35	A

ATOM	719	CG	LEU A	98	10.225	60.667	24.070	1.00 14.35	А
ATOM	720		LEU A		9.781	61.881	24.863	1.00 14.35	A
ATOM	721	CD2	LEU A		9.095	59.657	23.960	1.00 14.35	A
ATOM	722	C	LEU A	98	11.518	60.220		1.00 50.75	
							20.451		A
ATOM	723	0	LEU A		12.700	60.311	20.095	1.00 50.75	A
ATOM	724	N	ILE A	99	10.475	60.437	19.654	1.00 47.11	A
ATOM	725	CA	ILE A	99	10.587	60.809	18.262	1.00 47.11	A
ATOM	726	CB	ILE A	99	9.811	59.852	17.384	1.00 41.20	A
ATOM	727	CG2	ILE A	99	9.582	60.479	16.034	1.00 41.20	A
ATOM	728	CG1	ILE A	99	10.541	58.514	17.290	1.00 41.20	A
ATOM	729	CD	ILE A	99	11.838	58.567	16.494	1.00 41.20	A
ATOM	730	C	ILE A	99	9.962	62.158	18.094	1.00 47.11	A
ATOM	731	ŏ	ILE A	99	9.129	62.560	18.888	1.00 47.11	A
ATOM	732	N	LEU A		10.362	62.855	17.047	1.00 24.91	A
ATOM	733		LEU A						
		CA			9.826	64.172	16.751	1.00 24.91	A
ATOM	734	CB	LEU A	100	10.314	65.222	17.746	1.00 89.32	A
ATOM	735	CG	LEU A		10.260	66.662	17.209	1.00 89.32	A
ATOM	736		LEU A		8.948	66.937	16.494	1.00 89.32	A
ATOM	737	CD2	LEU A		10.458	67.625	18.347	1.00 89.32	A
ATOM	738	С	LEU A	100	10.312	64.540	15.389	1.00 24.91	A
ATOM	739	0	LEU A	100	11.282	65.277	15.254	1.00 24.91	A
ATOM	740	N	ARG A	101	9.637	64.010	14.380	1.00 83.85	A
ATOM	741	CA	ARG A		10.007	64.266	13.002	1.00 83.85	A
ATOM	742	CB	ARG A		9.584	63.072	12.126	1.00100.07	A
ATOM	743	CG	ARG A		10.640	62.603	11.118	1.00100.07	A
	744								
ATOM		CD	ARG A		10.512	61.104	10.804	1.00100.07	A
ATOM	745	NE	ARG A		11.748	60.552	10.237	1.00100.07	A
ATOM	746	CZ	ARG A		11.980	59.255	10.026	1.00100.07	A
ATOM	747		ARG A		11.055	58.354	10.334	1.00100.07	A
ATOM	748	NH2	ARG A	101	13.143	58.854	9.515	1.00100.07	A
ATOM	749	C	ARG A	101	9.348	65.555	12.520	1.00 83.85	A
ATOM	750	0	ARG A	101	9.977	66.373	11.845	1.00 83.85	A
ATOM	751	N	ALA A	102	8.088	65.733	12.908	1.00 35.68	A
ATOM	752	CA	ALA A	102	7.281	66.885	12.516	1.00 35.68	A
ATOM	753	CB	ALA A		6.218	67.171	13.578	1.00 52.49	A
ATOM	754	C	ALA A		8.099	68.130	12.234	1.00 35.68	A
ATOM	755	ō	ALA A		8.750	68.679	13.124	1.00 35.68	A
ATOM	756	N	ALA A		8.047	68.566	10.980	1.00 42.28	A
ATOM	757	CA	ALA A		8.787	69.731	10.539	1.00 42.28	A
ATOM	758	CB	ALA A		9.994	69.286	9.739	1.00100.07	A
ATOM	759	Ç	ALA A		7.947	70.713	9.735	1.00 42.28	A
ATOM	760	0	ALA A		8.442	71.411	8.847	1.00 42.28	A
ATOM	761	N	GLY A	104	6.662	70.769	10.046	1.00100.07	A
MOTA	762	CA	GLY A	104	5.816	71.702	9.338	1.00100.07	A
ATOM	763	С	GLY A	104	6.221	73.106	9.744	1.00100.07	A
ATOM	764	0	GLY A	104	6.073	73.475	10.913	1.00100.07	Α
ATOM	765	N	PRO A	105	6.764	73.904	8.811	1.00 83.24	A
ATOM	766	CD	PRO A	105	7.061	73.545	7.412	1.00 87.70	A
ATOM	767	CA		105	7.183	75.276	9.088	1.00 83.24	A
ATOM	768	CB	PRO A		7.210	75.887	7.701	1.00 87.70	A
ATOM	769	CG	PRO A	105	7.817	74.760	6.914	1.00 87.70	A
ATOM	770	C	PRO A		6.241	76.006	10.048	1.00 83.24	A
ATOM	771	ō	PRO A	105	5.326	76.710	9.617	1.00 83.24	A
	772			106	6.479	75.815	11.346	1.00 72.93	A
ATOM		N	LYS A						
ATOM	773	CA			5.689	76.430	12.411	1.00 72.93	A
ATOM	774	CB	LYS A		4.307	75.787	12.495	1.00 99.49	A
ATOM	775	CG	LYS A		4.326	74.377	13.040	1.00 99.49	A
ATOM	776	CD	LYS A		2.920	73.858	13.249	1.00 99.49	A
ATOM	777	CE	LYS A		2.936	72.521	13.974	1.00 99.49	A
ATOM	778	NZ	LYS A		1.564		14.306	1.00 99.49	- A
ATOM	779	С	LYS A		6.410	76.237	13.746	1.00 72.93	A
ATOM	780	0	LYS A		7.586	75.869	13.776	1.00 72.93	A
ATOM	781	N	GLU A		5.700	76.477	14.845	1.00 85.68	A
ATOM	782	CA	GLU A		6.272	76.332	16.185	1.00 85.68	A
ATOM	783	CB	GLU A	107	5.506	77.187	17.190	1.00 99.92	A
ATOM	784	CG	GLU A	107	5.735	78.668	17.095	1.00 99.92	Α
ATOM	785	CD	GLU A	107	5.712	79.314	18.467	1.00 99.92	Α
ATOM	786	OE1		107	4.768	79.039	19.242	1.00 99.92	A
ATOM	787	OE2	GLU A		6.640	80.092	18.772	1.00 99.92	Α
ATOM	788	C	GLU A		6.265	74.896	16.710	1.00 85.68	A
ATOM	789	ō	GLU A		5.197	74.339	16.978	1.00 85.68	A
ATOM	790	N	VAL A		7.443	74.300	16.875	1.00 77.04	A
ATOM	791	CA	VAL A		7.505	72.942	17.405	1.00 77.04	A
ATOM	792	CB		108	8.715	72.136	16.849	1.00 16.82	A
ATOM	793		VAL A		8.635	70.668	17.318	1.00 16.82	A
ATOM	794	CG2	VAL A		8.742	72.207	15.321	1.00 16.82	A
ATOM	795	С	VAL A		7.624	73.011	18.926	1.00 77.04	A
MOTA	796	0	VAL A		8.637	73.456	19.464	1.00 77.04	A
MOTA	797	N	ARG A	109	6.567	72.584	19.606	1.00 23.54	A
ATOM	798	CA	ARG A	109	6.496	72.558	21.066	1.00 23.54	A
ATOM	799	CB	ARG A		5.194	73.211	21.505	1.00100.07	A
ATOM	800	CG	ARG A		4.015	72.742	20.673	1.00100.07	A
ATOM	801	CD	ARG A		2.715	73.404	21.074	1.00100.07	A
ATOM	802	NE	ARG A		1.634	73.012	20.178	1.00100.07	A

ATOM ATOM ATOM ATOM	803 804 805 806	CZ ARG A 109 NH1 ARG A 109 NH2 ARG A 109 C ARG A 109	0.382 0.053 -0.536 6.520	73.423 74.238 73.027 71.091	20.306 21.298 19.438 21.492	1.00100.07 1.00100.07 1.00100.07 1.00 23.54	A A A
ATOM	807	O ARG A 109	6.398	70.210	20.648	1.00 23.54	A
ATOM	808	N ALA A 110	6.655	70.823	22.786	1.00 50.26	A
ATOM	809	CA ALA A 110	6.725	69.446	23.295	1.00 50.26	A
ATOM	810	CB ALA A 110	6.742	69.455	24.823	1.00 70.58	A
ATOM	811	C ALA A 110	5.652	68.478	22.808	1.00 50.26	A
ATOM	812	O ALA A 110	5.957	67.321		1.00 50.26	A
ATOM ATOM	813 814	N VAL A 111 CA VAL A 111	4.405 3.293	68.936 68.098	22.748	1.00 98.69	A A
ATOM ATOM	815 816	CB VAL A 111 CG1 VAL A 111 CG2 VAL A 111	2.064 0.896	68.967 68.091	21.939	1.00100.07	A A A
ATOM ATOM ATOM	817 818 819	C VAL A 111 O VAL A 111	1.663 3.692 3.751	69.801 67.281 66.051	23.140 21.082 21.139	1.00100.07 1.00 98.69 1.00 98.69	A A
ATOM ATOM	820 821	N ASP A 112 CA ASP A 112	3.974 4.371	67.989 67.396	19.991 18.720	1.00 90.09 1.00 65.07 1.00 65.07	A A
ATOM	822	CB ASP A 112	5.018	68.476	17.865	1.00 99.77	A
ATOM	823	CG ASP A 112	4.079	69.630	17.595	1.00 99.77	A
ATOM	824	OD1 ASP A 112	3.135	69.448	16.801	1.00 99.77	A
ATOM	825	OD2 ASP A 112	4.271	70.713	18.185	1.00 99.77	A
ATOM	826	C ASP A 112	5.308	66.207	18.869	1.00 65.07	A
ATOM	827	O ASP A 112	5.536	65.458	17.926	1.00 65.07	A
ATOM ATOM	828 829	N PHE A 113 CA PHE A 113	5.860 6.746	66.035	20.058	1.00 61.73 1.00 61.73	A A
ATOM	830	CB PHE A 113	7.319	65.006	21.705	1.00 56.73	A
ATOM	831	CG PHE A 113	8.798	65.124	21.730	1.00 56.73	A
ATOM	832	CD1 PHE A 113	9.407	66.335	21.469	1.00 56.73	A
ATOM ATOM ATOM	833 834	CD2 PHE A 113 CE1 PHE A 113	9.588 10.789	64.012	21.469	1.00 56.73 1.00 56.73	A A
ATOM ATOM	835 836	CE2 PHE A 113 CZ PHE A 113	10.962 11.567	64.108	21.977	1.00 56.73 1.00 56.73	A A
ATOM	837	C PHE A 113	5.964	63.630	20.159	1.00 61.73	A
ATOM	838	O PHE A 113	5.220	63.259	21.071	1.00 61.73	A
ATOM	839	N THR A 114	6.143	62.953	19.023	1.00 51.46	A
ATOM	840	CA THR A 114	5.463		18.735	1.00 51.46	A
ATOM	841	CB THR A 114	6.451	60.574	18.353	1.00 52.59	A
ATOM	842	OG1 THR A 114	5.754	59.322	18.281	1.00 52.59	A
ATOM	843	CG2 THR A 114	7.530	60.453	19.391	1.00 52.59	A
ATOM ATOM	844 845	C THR A 114 O THR A 114	4.627 5.152	61.158	19.886	1.00 51.46 1.00 51.46	A A
ATOM	846	N PRO A 115	3.302	61.095	19.688	1.00 41.98	A
ATOM	847	CD PRO A 115	2.489	61.486	18.519	1.00 51.61	A
ATOM ATOM	848 849	CA PRO A 115 CB PRO A 115	2.468 1.097	60.581	20.775	1.00 41.98 1.00 51.61	A A
ATOM	850	CG PRO A 115	1.103	61.597	19.113	1.00 51.61	A
ATOM	851	C PRO A 115	3.082	59.234	21.150	1.00 41.98	A
ATOM	852	O PRO A 115	3.723	58.579	20.320	1.00 41.98	A
ATOM	853	N SER A 116	2.920	58.833	22.399	1.00 71.44	A
ATOM	854	CA SER A 116	3.477	57.568		1.00 71.44	A
ATOM	855	CB SER A 116	4.994	57.593	22.699	1.00 81.81	A
ATOM	856	OG SER A 116	5.547	56.438	23.297	1.00 81.81	A
ATOM	857	C SER A 116	3.101	57.329	24.263	1.00 71.44	A
ATOM	858	O SER A 116	3.800	57.796	25.167	1.00 71.44	A
ATOM ATOM	859 860 861	N ALA A 117 CA ALA A 117 CB ALA A 117	1.999 1.496 0.308	56.605 56.304 55.325	24,469 25.813 25.741	1.00100.07 1.00100.07 1.00 89.40	A A A
ATOM ATOM ATOM	862 863	C ALA A 117 O ALA A 117	2.600 3.788	55.731 55.878	26.696 26.391	1.00100.07	- A A
ATOM	864	N ASP A 118	2.211	55.071	27.785	1.00 68.67	A
ATOM	865	CA ASP A 118	3.183	54.496	28.708	1.00 68.67	A
ATOM	866	CB ASP A 118	3.846	53.268	28.082	1.00 77.30	A
ATOM	867	CG ASP A 118	4.291	53.511	26.643	1.00 77.30	A
ATOM ATOM	868 869	OD1 ASP A 118 OD2 ASP A 118	3.434 5.496 4.243	53.509 53.729	25.733 26.415 29.034	1.00 77.30	A A
ATOM ATOM ATOM	870 871 872	C ASP A 118 O ASP A 118 N VAL A 119	5.300 3.928	55.545 55.229 56.797	29.582 28.697	1.00 68.67 1.00 68.67 1.00 84.27	A A A
ATOM	873	CA VAL A 119	4.804	57.948	28.899	1.00 84.27	A
ATOM	874	CB VAL A 119	5.951	57.944	27.867	1.00 70.32	A
ATOM ATOM	875 876	CG1 VAL A 119 CG2 VAL A 119	6.553 7.019	59.328 56.947	27.744	1.00 70.32	A A
ATOM ATOM	877 878	C VAL A 119 O VAL A 119	4.008 3.488 3.919	59.247 59.510	28.718 27.635 29.774	1.00 84.27 1.00 84.27 1.00 94.10	A A A
ATOM ATOM ATOM	879 880 881	N GLU A 120 CA GLU A 120 CB GLU A 120	3.197 2.408	60.055 61.329 61.574	29.717 29.717 31.007	1.00 94.10 1.00 94.10 1.00100.07	A A
ATOM ATOM	882 883	CG GLU A 120 CD GLU A 120	1.097 0.374	60.818	31.143	1.00100.07	A A
ATOM	884	OE1 GLU A 120	0.063	62.356	32.654	1.00100.07	A
ATOM	885	OE2 GLU A 120	0.123	60.238	33.243	1.00100.07	A
ATOM	886	C GLU A 120	4.138	62.512	29.518	1.00 94.10	A

ATOM ATOM ATOM ATOM	887 888 889 890 891	O N CA CB CG2	GLU A 12 ILE A 12 ILE A 12 ILE A 12 ILE A 12	1 1 1	5.307 3.618 4.414 4.379 5.350	62.459 63.586 64.785 65.212 66.360	29.901 28.932 28.706 27.231 26.993	1.00 94.10 1.00 65.61 1.00 65.61 1.00 99.99 1.00 99.99	A A A A
ATOM ATOM	892 893	CG1	ILE A 12	L	4.740	64.019 63.297	26.349 26.775	1.00 99.99	A A
ATOM ATOM	894 895	С 0	ILE A 12		3.890 3.383	65.924 66.932	29.573 29.074	1.00 65.61 1.00 65.61	A A
ATOM ATOM	896 897	N CA	MET A 12:		4.022	65.738 66.696	30.881 31.883	1.00 73.05 1.00 73.05	A A
MOTA	898	CB	MET A 12	2	4.516	66.614	33.095	1.00100.07	A
ATOM ATOM	89 9 900	CG	MET A 12: MET A 12:	2	3.825 3.484	66.738 65.141	34.449 35.256	1.00100.07 1.00100.07	A A
ATOM ATOM	901 902	CE C	MET A 12:		2.173 3.520	64.515 68.138	34.188 31.385	1.00100.07 1.00 73.05	A A
ATOM ATOM	90 3 90 4	O N	MET A 12: ASN A 12:		2.609 4.484	68.887 68.531	31.745 30.558	1.00 73.05 1.00 98.98	A A
ATOM	905	CA	ASN A 12	3	4.509	69.896	30.054	1.00 98.98	A
ATOM ATOM	906 907	CB CG	ASN A 12	3	5.772 7.021	70.619 70.152	30.526 29.800	1.00 99.41 1.00 99.41	A A
ATOM ATOM	908 909	OD1 ND2			7.420 7.639	68.994 71.056	29.902 29.055	1.00 99.41 1.00 99.41	A A
ATOM ATOM	910 911	C O	ASN A 12: ASN A 12:		4.437 5.416	69.985 69.724	28.543 27.849	1.00 98.98 1.00 98.98	A A
ATOM	912	N	PRO A 12	l	3.265	70.337	28.005	1.00 50.62	A
ATOM ATOM	913 914	CD CA	PRO A 124		2.027 3.169	70.802 70.452	28.648 26.551	1.00100.07 1.00 50.62	A A
ATOM ATOM	915 916	CB CG	PRO A 124		1.679 1.289	70.610 71.460	26.327 27.488	1.00100.07 1.00100.07	A A
ATOM	9 1 7 918	С	PRO A 12	l	3.921	71.758	26.316 27.024	1.00 50.62	A
ATOM ATOM	919	O N	PRO A 124 ASP A 125	5	4.892 3.473	72.051 72.561	25.362	1.00 50.62 1.00100.07	A A
ATOM ATOM	920 921	CA CB	ASP A 125		4.131 3.710	73.839 74.842	25.117 26.199	1.00100.07	A A
ATOM ATOM	922 923	CG OD1	ASP A 125		2.506 1.415	74.361 74.196	27.017 26.440	1.00 71.33 1.00 71.33	A A
ATOM	924	OD2	ASP A 125	5	2.648	74.143	28.241	1.00 71.33	A
ATOM ATOM	925 926	C	ASP A 125	5	5.666 6.229	73.702 73.191	25.089 24.122	1.00100.07 1.00100.07	A A
ATOM ATOM	927 928	N CA	LEU A 126		6.333 7.789	74.162 74.085	26.146 26.264	1.00 27.66 1.00 27.66	A A
ATOM ATOM	929 930	CB CG	LEU A 126		8.174 9.651	72.657 72.263	26.651 26.779	1.00 48.42 1.00 48.42	A A
ATOM ATOM	931 932		LEU A 126 LEU A 126	5	10.257	72.842	28.048 26.804	1.00 48.42 1.00 48.42	A A
ATOM	933	С	LEU A 126	5	8.538	74.486	24.989	1.00 27.66	A
ATOM ATOM	934 935	O N	HIS A 12		9.587 8.018	73.915 75.469	24.698 24.249	1.00 27.66 1.00 55.30	A A
ATOM ATOM	936 937	CA CB	HIS A 127		8.623 8.847	75.917 77.433	22.982 22.963	1.00 55.30 1.00 78.31	A A
ATOM ATOM	938 939	CD2	HIS A 127		9.335 8.997	77.957 79.067	21.640 20.940	1.00 78.31 1.00 78.31	A A
ATOM	940 941	ND1	HIS A 12	7	10.305	77.318	20.894	1.00 78.31	A
ATOM ATOM	942		HIS A 127	,	10.541 9.761	78.011 79.077	19.794 19.797	1.00 78.31 1.00 78.31	A A
ATOM ATOM	943 944	C 0	HIS A 127		9.945 11.003	75.246 75.862	22.645 22.756	1.00 55.30 1.00 55.30	A A
ATOM ATOM	945 94 6	N CA	ILE A 128		9.900 11.143	73.992 73.328	22.224 21.912	1.00 32.89 1.00 32.89	- A A
ATOM ATOM	947 948	CB CG2	ILE A 128 ILE A 128	3	10.933 11.983	71.841 71.355	21.579	1.00 28.75 1.00 28.75	A A
ATOM	949	CG1	ILE A 128	3	10.986	71.030	22.871	1.00 28.75	A
ATOM ATOM	950 951	CD	ILE A 128	3	11.375 11.870	69.573 73.994	22.673 20.762	1.00 28.75 1.00 32.89	A A
ATOM ATOM	952 953	o N	ILE A 128		13.098 11.150	74.063 74.484	20.783 19.755	1.00 32.89 1.00 35.51	A A
ATOM ATOM	95 4 955	CA CB	ALA A 129 ALA A 129		11.844 12.968	75.135 74.222	18.640 18.105	1.00 35.51 1.00 64.61	A A
ATOM	956 957	С	ALA A 129 ALA A 129)	11.002	75.620	17.468	1.00 35.51	A
ATOM ATOM	958	N N	THR A 130)	10.142 11.284	74.912 76.847	16.941 17.062	1.00 35.51 1.00 56.00	A A
ATOM ATOM	959 960	CA CB	THR A 130		10.614 10.783	77.454 78.977	15.938 15.963	1.00 56.00 1.00 97.43	A A
ATOM ATOM	961 962		THR A 130)	10.089 10.263	79.515 79.600	17.095 14.668	1.00 97.43 1.00 97.43	A A
ATOM	963	С	THR A 130)	11.324	76.926	14.716	1.00 56.00	A
ATOM ATOM	964 965	O N	THR A 130 LEU A 131	-	12.433	76.425	14.819	1.00 56.00 1.00 96.96	A A
ATOM ATOM	966 967	CA CB	LEU A 131 LEU A 131		11.262 11.596	76.591 75.069	12.303 12.278	1.00 96.96 1.00 14.70	A A
ATOM ATOM	968 969	CG CD1	LEU A 131 LEU A 131		10.673 9.538	73.901 73.750	12.679 11.686	1.00 14.70 1.00 14.70	A A
ATOM	970		LEU A 131		11.487	72.612	12.725	1.00 14.70	Ā

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	971 972 973 974 975 976 977 978 980 981 982 983 984 985 987 991 992 1002 1003 1004 1005 1006 1007 1013 1016 1016 1018		GLU A	131 132 132 132 132 132 132 132	10.225 9.037 10.676 9.755 10.357 9.8431 9.838 10.375 11.603 9.488 9.816 10.514 10.642 12.072 10.635 11.370 12.1907 13.135 10.9808 11.883 11.883 11.889 15.189 16.330 16.063 17.254 16.977 14.006 14.514 13.513 13.650 12.654 14.017 14.514 13.513 13.650 14.781 13.1360 13.313 13.670	76.982 77.057 77.294 77.1690 79.126 80.190 81.549 81.5502 77.546 77.496 77.496 77.496 77.496 77.309 78.582 78.045 81.092 80.049 76.073 75.630 75.630 75.630 74.48 74.342 72.955 70.496 80.049 80.04	11.276 11.586 10.071 9.262 9.2227 9.680 8.863 7.658 7.5263 4.768 3.2563 4.766 1.9479 3.7241 5.5371 6.6256 6.8941 8.7031 6.7256 6.8941 8.7031 6.4574 10.1992 10.774 12.2203 14.728	1.00 96.96 1.00 33.61 1.00 33.61 1.00100.07	A A A A A A A A A A A A A A A A A A A
ATOM ATOM ATOM ATOM ATOM	1022 1023 1024 1025 1026	CD2 CE2 CZ OH C		138 138 138	15.034 15.195 14.145 14.297 14.350	61.467 60.203 59.639 58.439 64.479	12.390 12.968 13.687 14.329 14.164	1.00 53.06 1.00 53.06 1.00 53.06 1.00 53.06 1.00 42.82	A A A A
ATOM ATOM	1027 1028	N O	TYR A	138 139	15.546 13.881	64.369 64.498	13.897 15.411	1.00 42.82 1.00 77.85	A A
ATOM ATOM ATOM	1029 1030 1031	CA CB CG	MET A MET A MET A	139	14.761 14.628 14.947	64.385 65.614 66.909	16.572 17.464 16.760	1.00 77.85 1.00100.07 1.00100.07	- A A A
MOTA MOTA	1032 1033	SD CE	MET A	139 139	15.042 13.373	68.272 68.931	17.916 17.827	1.00100.07 1.00100.07	A A
ATOM ATOM	1034	0	MET A	139	14.455	63.137	17.395 17.812	1.00 77.85	A
ATOM ATOM ATOM	1036 1037 1038	N CA CB	GLU A GLU A GLU A	140	15.477 15.324 15.984	62.327 61.100 59.966	17.631 18.387 17.604	1.00 29.15 1.00 29.15 1.00 74.04	A A A
ATOM ATOM	1039 1040	CG CD	GLU A	140	15.658 16.472	58.564 57.505	18.069 17.331	1.00 74.04 1.00 74.04 1.00 74.04	A A
ATOM ATOM	1041 1042	OE1 OE2	GLU A	140	17.696 15.892	57.415 56.766	17.574 16.504	1.00 74.04 1.00 74.04	A A
ATOM ATOM	1043 1044	C 0	GLU A	140	16.079 17.310	61.368	19.685 19.707	1.00 29.15 1.00 29.15	A A
ATOM ATOM	1045 1046	N CA	VAL A	141	15.354 15.979	61.701	20.765	1.00 7.41 1.00 7.41	A A
ATOM ATOM	1047	CB CG1		141	15.594 14.110	63.490 63.667	22.436	1.00 73.37	A A
ATOM ATOM	1049 1050 1051	CG2 C O	VAL A VAL A VAL A	141	15.979 15.735 14.745	63.775 61.219 61.401	23.874 23.301	1.00 73.37 1.00 7.41 1.00 7.41	A A
ATOM ATOM ATOM	1051 1052 1053	N CA	ARG A ARG A	142	16.675 16.529	60.353 59.479	23.987 23.631 24.789	1.00 7.41 1.00 25.95 1.00 25.95	A A A
ATOM	1054	CB	ARG A		17.838	58.742	25.040	1.00 25.35	A

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1055 1056 1057 1058 1059 1060 1061 1062 1063 1064	CD ARG NE ARG CZ ARG NH1 ARG C ARG O ARG O ARG N VAL CA VAL CB VAL	A 142 A 142 A 142 A 142 A 143 A 143 A 143	17.775 19.112 19.050 20.061 21.197 19.939 16.148 16.176 15.795 15.426 13.951	57.735 57.119 56.066 55.753 56.430 54.768 60.222 61.443 59.455 59.953 60.446	26.157 26.362 27.351 28.146 28.051 29.030 26.057 26.086 27.092 28.421 28.483	1.00 45.39 1.00 45.39 1.00 45.39 1.00 45.39 1.00 45.39 1.00 25.95 1.00 25.95 1.00100.07 1.00100.07	A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1066 1067 1068 1070 1071 1072 1073 1074 1075	O VAL N ASP CA ASP CB ASP CG ASP OD1 ASP OD2 ASP C ASP O ASP	A 143 A 143 A 143 A 144 A 144 A 144 A 144 A 144 A 144 A 144 A 144 A 144	13.727 13.007 15.615 16.332 16.632 18.153 18.863 18.664 19.645 16.017	61.579 59.312 58.797 57.694 59.053 58.012 57.902 57.204 57.585 56.272 58.180 59.262	27.495 28.189 29.416 29.202 30.506 31.495 31.686 30.532 29.353 30.822 32.881 33.263	1.00100.07 1.00100.07 1.00100.07 1.00100.07 1.00 51.55 1.00 51.55 1.00 39.57 1.00 39.57 1.00 39.57 1.00 39.57	A A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088	CA ARG CB ARG CG ARG CD ARG NE ARG CZ ARG NH1 ARG NH2 ARG C ARG O ARG		16.003 15.492 15.285 14.184 12.803 11.743 10.455 10.059 9.565 16.642 17.790 16.368	57.093 57.149 55.736 55.627 56.001 56.077 55.806 56.442 57.689 58.608	33.644 35.001 35.561 36.619 35.970 36.906 36.585 35.351 37.494 35.318 36.766	1.00 64.20 1.00 64.20 1.00 99.82 1.00 99.82 1.00 99.82 1.00 99.82 1.00 99.82 1.00 99.82 1.00 64.20 1.00 64.20 1.00 85.65	A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101	C GLY O GLY N VAL CA VAL CG VAL CG2 VAL C VAL O VAL N GLY	A 146 A 146 A 147 A 147 A 147 A 147 A 147 A 147 A 147 A 147 A 148	17.482 17.289 16.175 18.421 18.476 18.627 18.898 17.383 19.695 20.760 19.547 20.673	59.259 59.789 59.926 60.099 60.624 59.499 60.070 58.628 61.514 61.174 62.650 63.553	37.424 38.825 39.330 39.443 40.792 41.796 43.181 41.771 40.878 40.357 41.538 41.650	1.00 85.65 1.00 85.65 1.00 74.35 1.00 74.35 1.00 36.54 1.00 36.54 1.00 74.35 1.00 74.35 1.00 50.28	A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1102 1103 1104 1105 1106 1107 1108 1109 1110	C GLY O GLY N TYR CA TYR CB TYR CG TYR CD1 TYR CE1 TYR CD2 TYR CE2 TYR CZ TYR	A 148 A 149 A 149	20.896 20.062 22.031 22.396 22.614 23.368 23.700 24.385 25.052 24.708	64.253 64.160 64.941 65.694 67.157 68.042 68.092 68.964 68.882 69.750 69.787	40.322 39.411 40.212 39.015 39.419 38.448 37.098 36.226 38.904 38.043 36.708	1.00 50.28 1.00 50.28 1.00 65.06 1.00 65.06 1.00 46.08 1.00 46.08 1.00 46.08 1.00 46.08 1.00 46.08	A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124	C TYR O TYR N VAL CA VAL CB VAL CG1 VAL CG2 VAL C VAL N PRO CD PRO	A 150 A 150 A 150 A 151 A 151	25.384 23.645 24.665 23.557 24.702 24.612 25.897 24.388 24.774 23.782 25.962 27.109 26.179	70.637 65.122 64.975 64.778 64.230 62.709 62.185 62.075 64.872 64.947 65.558 66.006	35.866 38.380 39.043 37.100 36.381 36.233 35.631 37.588 35.012 34.298 34.630 35.532	1.00 46.08 1.00 65.06 1.00 45.82 1.00 45.82 1.00 23.65 1.00 23.65 1.00 45.82 1.00 45.82 1.00 38.98 1.00 32.54	A A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138	CB PRO CG PRO O PRO N ALA CA ALA CB ALA C ALA O ALA N GLU CA GLU CB GLU	A 151 A 151 A 151 A 151 A 151 A 152 A 152 A 152 A 152 A 152 A 153 A 153 A 153 A 153	26.842 27.754 27.057 27.363 27.456 28.338 28.853 29.507 30.630 29.184 30.083 29.921 30.804	67.290 66.801 65.214 64.055 65.851 65.221 66.249 64.555 65.079 63.394 62.750 61.861	33.340 33.764 34.962 32.397 32.666 31.296 30.315 29.321 31.041 31.595 32.330 33.830 34.672	1.00 38.98 1.00 32.54 1.00 32.54 1.00 38.98 1.00 38.13 1.00 57.22 1.00 38.13 1.00 38.13 1.00 07 1.00 100.07 1.00 63.28 1.00 63.28	A A A A A A A A A A A A A A A A A A A

ATOM ATOM	1139 1140	CD OE1	GLU A GLU A	153 153	30.083 29.707	61.327 62.134	35.895 36.775	1.00 63.28 1.00 63.28	A A
ATOM	1141	OE2	GLU A		29.884	60.094	35.972	1.00 63.28	A
ATOM ATOM	1142 1143	C O	GLU A GLU A	153 153	29.514 30.248	61.186 60.266	31.918 31.557	1.00100.07	A A
ATOM	1144	N	ARG A	154	28.184	61.101	31.948	1.00 97.84	A
ATOM ATOM	1145 1146	CA CB	ARG A	_	27.480 26.333	59.892 59.588	31.549 32.509	1.00 97.84	A A
ATOM	1147	CG	ARG A	154	26.835	59.067	33.858	1.00100.07	A
ATOM	1148	CD	ARG A		25.753	58.328	34.644	1.00100.07	A
ATOM ATOM	1149 1150	NE CZ	ARG A		26.273 25.573	57.725 56.915	35.874	1.00100.07	A A
ATOM	1151	NH1		154	24.319	56.607	36.665 36.358	1.00100.07	A
ATOM	1152	NH2	ARG A		26.128	56.407	37.760	1.00100.07	A
ATOM ATOM	1153 1154	C O	ARG A		26.980 25.929	60.063 60.668	30.130 29.889	1.00 97.84 1.00 97.84	A A
ATOM	1155	N	HIS A	155	27.777	59.526	29.206	1.00 33.73	A
MOTA	1156	CA	HIS A	155	27.547	59.567	27.759	1.00 33.73	A
ATOM ATOM	1157 1158	CB CG	HIS A	155 155	28.605 28.798	58.703 57.374	27.087 27.753	1.00100.07	A A
ATOM	1159	CD2	HIS A	155	28.156	56.191	27.590	1.00100.07	A
ATOM	1160		HIS A		29.743	57.164	28.734	1.00100.07	A
ATOM ATOM	1161 1162		HIS A		29.680 28.725	55.908 55.296	29.141 28.462	1.00100.07	A A
ATOM	1163	С	HIS A		26.181	59.164	27.167	1.00 33.73	A
MOTA	1164	0	HIS A		25.329	58.515	27.808	1.00 33.73	A
ATOM ATOM	1165 1166	N CA	GLY A	156 156	26.008 24.810	59.551 59.225	25.906 25.156	1.00 73.63 1.00 73.63	A A
MOTA	1167	c	GLY A		25.191	58.230	24.065	1.00 73.63	A
MOTA	1168	O			24.863	58.409	22.889	1.00 73.63	A
ATOM ATOM	1169 1170	N CA	ILE A		25.909 26.344	57.180 56.139	24.462 23.535	1.00100.07	A A
ATOM	1171	CB	ILE A	157	27.412	55.195	24.182	1.00100.07	A
ATOM ATOM	1172 1173	CG2 CG1	ILE A	157 157	27.894 28.614	54.156 56.005	23.169 24.683	1.00100.07	A A
ATOM	1174	CD	ILE A		29.309	56.847	23.646	1.00100.07	A
MOTA	1175	C	ILE A		25.139	55.307	23.103	1.00100.07	A
ATOM ATOM	1176 1177	O N	ILE A LYS A		25.145 24.103	54.081 55.985	23.220 22.615	1.00100.07 1.00 86.89	A A
ATOM	1178	CA	LYS A		22.887	55.322	22.154	1.00 86.89	A
MOTA	1179	CB		158	21.673	56.195	22.471	1.00 94.08	A
ATOM ATOM	1180 1181	CG CD	LYS A	158 158	20.346 19.275	55.588 56.658	22.071 21.978	1.00 94.08	A A
MOTA	1182	CE	LYS A		18.080	56.183	21.166	1.00 94.08	A
MOTA	1183	NZ	LYS A		17.231	57.331	20.740	1.00 94.08	A
ATOM ATOM	1184 1185	С 0	LYS A		23.019 23.473	55.136 54.091	20.647 20.170	1.00 86.89 1.00 86.89	A A
MOTA	1186	N	ASP A	159	22.618	56.159	19.902	1.00 37.45	A
MOTA	1187 1188	CA CB	ASP A	159	22.722 21.834	56.139 57.243	18.448 17.857	1.00 37.45	A A
ATOM ATOM	1189	CG		159	21.704	57.154	16.349	1.00100.07	Ā
MOTA	1190	OD1			22.702	57.415	15.642	1.00100.07	A
ATOM ATOM	1191 1192	OD2 C	ASP A		20.598 24.198	56.825 56.424	15.869 18.190	1.00100.07	A A
MOTA	1193	ŏ		159	24.554	57.212	17.305	1.00 37.45	A
MOTA	1194	N		160	25.040	55.776	18.998	1.00100.07	A
ATOM ATOM	1195 1196	CA CB	ARG A	160 160	26.490 27.194	55.930 54.577	18.945 19.099	1.00100.07	A A
MOTA	1197	CG	ARG A	160	28.723	54.671	18.980	1.00100.07	A
ATOM ATOM	1198 1199	CD NE	ARG A	4	29.369 30.564	55.377 56.136	20.176 19.801	1.00100.07	~ A A
ATOM	1200	CZ	ARG A		31.557	56.443	20.634	1.00100.07	A
MOTA	1201		ARG A		31.515	56.051	21.903	1.00100.07	A
MOTA MOTA	1202 1203	NH2 C	ARG A		32.592 26.941	57.152 56.589	20.199 17.664	1.00100.07 1.00100.07	A A
ATOM	1204	0	ARG A	160	27.352	55.892	16.737	1.00100.07	A
ATOM	1205	N CA	ILE A		26.860 27.275	57.922 58.641	17.610	1.00 52.94 1.00 52.94	A A
ATOM ATOM	1206 1207	CB	ILE A		26.764	57.886	16.413 15.141	1.00 52.94	A
MOTA	1208	CG2	ILE A	161	26.149	58.843	14.152	1.00 60.99	A
ATOM ATOM	1209 1210	CG1	ILE A		27.925 27.504	57.115 55.849	14.500 13.786	1.00 60.99 1.00 60.99	A A
ATOM	1211	C	ILE A		26.923	60.117	16.264	1.00 52.94	A
MOTA	1212	0	ILE A	161	27.590	60.840	15.522	1.00 52.94	A
ATOM ATOM	1213 1214	N CA	ASN A		25.878 25.502	60.572 61.975	16.939 16.837	1.00 99.95 1.00 99.95	A A
ATOM	1215	CB	ASN A		24.505	62.166	15.694	1,00 96.68	A
MOTA	1216	CG	ASN A		24.995	61.559	14.386	1.00 96.68	A
ATOM ATOM	1217 1218	OD1 ND2	ASN A ASN A		26.119 24.146	61.810 60.756	13.947 13.757	1.00 96.68 1.00 96.68	A A
ATOM	1219	C	ASN A	162	24.905	62.399	18.163	1.00 99.95	A
ATOM	1220	O	ASN A		24.515	63.544	18.365	1.00 99.95	A A
ATOM ATOM	1221 1222	N CA	ALA A		24.872 24.337	61.437 61.587	19.066 20.402	1.00 51.97 1.00 51.97	A A

ATOM ATOM	1223 1224	CB C	ALA A 10 ALA A 10	63	25.087 24.279	60.647 62.980	21.333 21.037	1.00100.07 1.00 51.97	A A
ATOM ATOM	1225 1226	O N	ALA A 1	54	23.253 25.369	63.358 63.737	21.607 20.948	1.00 51.97 1.00 40.41	A A
ATOM ATOM	1227 1228	CA CB	ILE A 10		25.456 24.715	65.060 66.208	21.588 20.805	1.00 40.41 1.00 22.84	A A
ATOM	1229	CG2	ILE A 1	64	25.247	66.343	19.377	1.00 22.84	A
ATOM ATOM	1230 1231	CG1	ILE A 10		23.215	65.966 67.120	20.793 20.245	1.00 22.84 1.00 22.84	A A
ATOM	1232	C	ILE A 1	54	24.834	64.991	22.976	1.00 40.41	Α
ATOM ATOM	1233 1234	O N	PRO A 1		24.163 25.101	65.921 63.912	23.396 23.728	1.00 40.41 1.00 16.22	A A
ATOM ATOM	1235 1236	CD	PRO A 10		26.390 24.531	63.209 63.743	23.641 25.075	1.00 26.38 1.00 16.22	A A
MOTA	1237	CB	PRO A 1	55	25.573	62.880	25.799	1.00 26.38	A
ATOM ATOM	1238 1239	CG C	PRO A 16		26.835 24.240	63.215 65.048	25.077 25.793	1.00 26.38 1.00 16.22	A A
ATOM	1240	0	PRO A 16	55	25.107	65.913	25.890	1.00 16.22	A
ATOM ATOM	1241 1242	N CA	VAL A 16		23.003 22.601	65.197 66.395	26.256 26.971	1.00 48.47 1.00 48.47	A A
ATOM ATOM	1243 1244	CB CG1	VAL A 10		21.175 20.750	66.826 67.993	26.611 27.472	1.00 39.93 1.00 39.93	A A
ATOM	1245	CG2	VAL A 1	66	21.121	67.231	25.174	1.00 39.93	A
ATOM ATOM	1246 1247	C	VAL A 16		22.680 22.681	66.107 64.943	28.453 28.875	1.00 48.47 1.00 48.47	A A
ATOM	1248	N	ASP A 16	57	22.754	67.174	29.240	1.00 51.97	Α
ATOM ATOM	1249 1250	CA CB	ASP A 16		22.861 23.156	67.049 68.417	30.679 31.292	1.00 51.97 1.00 67.98	A A
ATOM	1251	CG	ASP A 16	57	24.547	68.917	30.956	1.00 67.98	A
ATOM ATOM	1252 1253	OD1 OD2	ASP A 16		25.538 24.646	68.343 69.885	31.461 30.178	1.00 67.98 1.00 67.98	A A
ATOM ATOM	1254 1255	C O	ASP A 16		21.621 20.568	66.456 66.354	31.316 30.690	1.00 51.97 1.00 51.97	A A
ATOM	1256	N	ALA A 1	58	21.769	66.051	32.570	1.00 49.41	A
ATOM ATOM	1257 1258	CA CB	ALA A 16		20.669 21.119	65.486 64.225	33.333 34.076	1.00 49.41 1.00100.07	A A
ATOM	1259	С	ALA A 16	8	20.158	66.525	34.328	1.00 49.41	A
ATOM ATOM	1260 1261	o N	ALA A 16		20.790 18.981	67.541 66.271	34.598 34.851	1.00 49.41 1.00 47.41	A A
MOTA	1262	CA	ILE A 16	59	18.382	67.153	35.809	1.00 47.41	A
ATOM ATOM	1263 1264	CB CG2	ILE A 16		17.881 18.325	68.479 69.629	35.193 36.057	1.00100.07 1.00100.07	A A
ATOM ATOM	1265 1266	CG1	ILE A 16		18.410 17.772	68.675 67.765	33.774 32.752	1.00100.07	A A
ATOM	1267	C	ILE A 16	59	17.193	66.341	36.232	1.00 47.41	A
ATOM ATOM	1268 1269	N O	PHE A 1		16.077 17.437	66.563 65.364	35.763 37.091	1.00 47.41 1.00 56.10	A A
ATOM	1270 1271	CA CB	PHE A 17		16.359 16.939	64.515 63.223	37.552 38.115	1.00 56.10 1.00 52.95	A A
ATOM ATOM	1272	CG	PHE A 17		17.797	62.481	37.132	1.00 52.95	A
ATOM ATOM	1273 1274	CD1 CD2	PHE A 17		17.279 19.125	62.070 62.197	35.907 37.422	1.00 52.95 1.00 52.95	A A
ATOM	1275	CE1	PHE A 1	70	18.072	61.392	34.994	1.00 52.95	A
ATOM ATOM	1276 1277	CE2	PHE A 17		19.923 19.396	61.516 61.115	36.510 35.298	1.00 52.95 1.00 52.95	A A
ATOM	1278 1279	C O	PHE A 17		15.510 14.856	65.248 66.241	38.595 38.274	1.00 56.10 1.00 56.10	A A
ATOM ATOM	1280	N	SER A 17	71	15.532	64.761	39.834	1.00 56.78	A
ATOM ATOM	1281 1282	CA CB	SER A 17		14.767 15.698	65.346 65.978	40.936 41.967	1.00 56.78 1.00 41.35	- A
ATOM	1283	OG	SER A 17	71	14.944	66.683	42.937	1.00 41.35	A
ATOM ATOM	1284 1285	C O	SER A 17		13.739 14.081	66.380 67,507	40.513 40.180	1.00 56.78 1.00 56.78	A A
ATOM ATOM	1286 1287	N CD	PRO A 17		12.456 11.908	66.013 64.678	40.543 40.827	1.00 38.33 1.00 27.85	A A
ATOM	1288	CA	PRO A 1	72	11.389	66.931	40.151	1.00 38.33	Α
ATOM ATOM	1289 1290	CB CG	PRO A 17		10.276 10.409	65.991 64.935	39.742 40.774	1.00 27.85 1.00 27.85	A A
MOTA	1291	С	PRO A 17	72	10.942 10.072	67.887 68.717	41.228 40.988	1.00 38.33	A A
ATOM ATOM	1292 1293	N O	VAL A 17		11.496	67.758	42.424	1.00 21.94	A
ATOM ATOM	1294 1295	CA CB	VAL A 17		11.142 11.833	68.684 68.295	43.481 44.775	1.00 21.94 1.00 56.09	A A
ATOM	1296	CG1	VAL A 17	73	11.568	69.332	45.820	1.00 56.09	A
ATOM ATOM	1297 1298	CG2 C	VAL A 17		11.333 11.715	66.934 69.992	45.235 42.956	1.00 56.09 1.00 21.94	A A
ATOM	1299	0	VAL A 17 ARG A 17	73	12.922 10.860	70.083 70.994	42.732 42.747	1.00 21.94 1.00 51.23	A A
ATOM ATOM	1300 1301	N CA	ARG A 17	74	11.293	72.279	42.182	1.00 51.23	A
ATOM ATOM	1302 1303	CB CG	ARG A 17		10.345 10.795	72.661 73.840	41.028 40.182	1.00100.00	A A
ATOM	1304	CD	ARG A 17	74	12.272	73.730	39.908	1.00100.00	Α
ATOM ATOM	1305 1306	NE CZ	ARG A 17		12.736 14.021	74.650 74.882	38.880 38.630	1.00100.00 1.00100.00	A A

MOTA	1307	NH1	ARG A	174	14.956	74.265	39.343	1.00100.00	A
ATOM	1308		ARG A		14.376	75.714	37.656	1.00100.00	
		C							A
MOTA	1309		ARG A		11.452	73.469	43.137	1.00 51.23	A
ATOM	1310	0	ARG A		11.802	74.567	42.717	1.00 51.23	A
MOTA	1311	N	ARG A	175	11.221	73.245	44.422	1.00 24.40	A
ATOM	1312	CA	ARG A	175	11.333	74.302	45.419	1.00 24.40	A
ATOM	1313	CB	ARG A		10.472	75.484	44.973	1.00 46.83	A
ATOM	1314	CG	ARG A		10.416	76.649	45.911	1.00 46.83	A
ATOM	1315	CD	ARG A	175	9.769	77.818	45.203	1.00 46.83	A
ATOM	1316	NE	ARG A	175	9.080	78.729	46.115	1.00 46.83	A
MOTA	1317	CZ	ARG A	175	8.459	79.841	45.725	1.00 46.83	A
ATOM	1318		ARG A		8.449	80.181	44.437	1.00 46.83	A
ATOM	1319		ARG A		7.837	80.608	46.616	1.00 46.83	A
ATOM	1320	C	ARG A		10.808	73.652	46.703	1.00 24.40	A
ATOM	1321	0	ARG A	175	9.964	72,769	46.633	1.00 24.40	A
ATOM	1322	N	VAL A	176	11.312	74.057	47.864	1.00 50.40	A
ATOM	1323	CA	VAL A		10.875	73.467	49.137	1.00 50.40	A
ATOM	1324	CB	VAL A		11.639	72.126	49.452	1.00 5.23	A
MOTA	1325		VAL A		11.188	71.565	50.791	1.00 5.23	A
MOTA	1326	CG2	VAL A	176	11.447	71.110	48.351	1.00 5.23	A
ATOM	1327	C	VAL A	176	11.108	74.403	50.333	1.00 50.40	A
ATOM	1328	0	VAL A		12.242	74.536	50.827	1.00 50.40	A
ATOM	1329	N	ALA A		10.038	75.040			
							50.802	1.00 73.68	A
MOTA	1330	CA	ALA A		10.125	75.936	51.955	1.00 73.68	A
ATOM	1331	CB	ALA A	177	9.717	77.367	51.551	1.00 18.59	A
ATOM	1332	С	ALA A	177	9.208	75.400	53.057	1.00 73.68	A
ATOM	1333	0	ALA A	177	8.647	74.312	52.927	1.00 73.68	A
ATOM	1334	N	PHE A		9.082	76.144	54.148	1.00100.07	A
ATOM	1335								
		CA	PHE A		8.196	75.751	55.239	1.00100.07	A
ATOM	1336	CB	PHE A	178	8.518	74.313	55.714	1.00 30.14	A
ATOM	1337	ÇG	PHE A	178	9.759	74.172	56.548	1.00 30.14	A
ATOM	1338	CD1	PHE A	178	9.782	74.587	57.876	1.00 30.14	Α
MOTA	1339	CD2	PHE A	178	10.877	73.523	56.038	1.00 30.14	А
ATOM	1340		PHE A		10.905	74.343	58.685	1.00 30.14	A
ATOM	1341		PHE A		12.005	73.279	56.844	1.00 30.14	A
MOTA	1342	CZ	PHE A		12.014	73.686	58.162	1.00 30.14	A
MOTA	1343	С	PHE A	178	8.211	76.770	56.372	1.00100.07	A
ATOM	1344	0	PHE A	178	8.983	77.725	56.325	1.00100.07	A
ATOM	1345	N	GLN A	179	7.350	76.605	57.370	1.00 51.57	A
ATOM	1346	CA	GLN A		7.318	77.579	58.457	1.00 51.57	A
ATOM	1347	CB	GLN A		6.322	78.681	58.113	1.00 99.76	A
ATOM	1348	CG	GLN A		6.833	79.639	57.071	1.00 99.76	Α
ATOM	1349	CD	GLN A	179	5.748	80.537	56.544	1.00 99.76	A
ATOM	1350	OE1	GLN A	179	4.724	80.740	57.200	1.00 99.76	A
ATOM	1351	NE2			5.966	81.094	55.356	1.00 99.76	A
ATOM	1352	C	GLN A		6.960	76.979	59.805	1.00 51.57	A
ATOM	1353	0	GLN A		6.040	76.175	59.915	1.00 51.57	A
ATOM	1354	N	VAL A		7.693	77.362	60.835	1.00 86.87	A
MOTA	1355	CA	VAL A	180	7.386	76.852	62.154	1.00 86.87	A
ATOM	1356	CB	VAL A	180	8.669	76.574	62.958	1.00 48.36	A
ATOM	1357	CG1	VAL A	180	8.313	76.074	64.349	1.00 48.36	Α
ATOM	1358	CG2			9.525	75.543	62.231	1.00 48.36	A
ATOM	1359	C	VAL A		6.541	77.915	62.845	1.00 86.87	A
ATOM	1360	0	VAL A		7.072	78.856	63.437	1.00 86.87	A
ATOM	1361	N	GLU A		5.221	77.768	62.746	1.00100.07	A
ATOM	1362	CA	GLU A	181	4.273	78.712	63.343	1.00100.07	A
ATOM	1363	CB	GLU A	181	2.938	78.666	62.596	1.00 72.17	A
ATOM	1364	CG	GLU A	181	3.031	78.951	61.128	1.00 72.17	A
ATOM	1365	CD	GLU A	181	3.100	80.429	60.840	1.00 72.17	A
ATOM	1366		GLU A		3.556			1.00 72.17	- A
ATOM	1367	OE2	GLU A		2.707	80.832	59.718	1.00 72.17	A
ATOM	1368	C	GLU A		3.978	78.365	64.784	1.00100.07	A
ATOM	1369	0	GLU A		4.394	77.320	65.290	1.00100.07	A
ATOM	1370	N	ASP A		3.236	79.254	65.431	1.00 99.56	A
ATOM	1371	CA	ASP A	182	2.823	79.048	66.805	1.00 99.56	A
ATOM	1372	CB	ASP A	182	2.886	80.361	67.581	1.00100.07	A
ATOM	1373	CG	ASP A		4.304	80.790	67.867	1.00100.07	A
ATOM	1374		ASP A		5.052	79.988	68.473	1.00100.07	Ā
ATOM	1375		ASP A		4.664	81.923	67.488	1.00100.07	A
ATOM	1376	C	ASP A		1.391	78.534	66.733	1.00 99.56	A
ATOM	1377	0	ASP A		0.493	79.223	66.240	1,00 99.56	A
ATOM	1378	N	THR A	183	1.189	77.308	67.205	1.00100.07	A
ATOM	1379	CA	THR A		-0.129	76.702	67.180	1.00100.07	A
ATOM	1380	CB	THR A		-0.071	75.216	67.606	1.00100.07	A
					-1.405				
ATOM	1381	OG1	THR A			74.709	67.744	1.00100.07	A
ATOM	1382	CG2			0.677	75.057	68.924	1.00100.07	A
ATOM	1383	C ,	THR A		-1.123	77.431	68.063	1.00100.07	A
ATOM	1384	0 ′	THR A	183	-1.615	78.512	67.708	1.00100.07	A
ATOM	1385	N	ARG A		-1.393	76.822	69.217	1.00 69.50	A
ATOM	1386	CA	ARG A		-2.334	77.313	70.216	1.00 69.50	A
ATOM	1387	CB	ARG A		-3.382	78.244	69.568	1.00100.07	A
ATOM	1388	CG	ARG A		-4.731	78.353	70.288	1.00100.07	A
ATOM	1389	CD	ARG A		-5.779	77.375	69.723	1.00100.07	A
ATOM	1390	NE	ARG A	184	-7.057	77.467	70.440	1.00100.07	A

ATOM 1393 NWZ ARG A 184	MOTA MOTA	1391 1392	CZ NH1	ARG A		-8.110 -8.056	76.672 75.707	70.234 69.322	1.00100.07	A A
ATOM 1395 O ARG A 184 -3.281 75.096 70.013 1.00 69.50 A ATOM 1397 C ALEU A 185 -3.944 75.016 72.775 1.00100.07 A ATOM 1398 CB LEU A 185 -3.944 77.0197 72.011 1.00100.07 A ATOM 1398 CB LEU A 185 -6.246 77.934 77.276 1.00100.07 A ATOM 1399 C LEU A 185 -6.246 77.934 77.2775 1.00100.07 A ATOM 1399 C LEU A 185 -6.246 77.934 77.2775 1.00100.07 A ATOM 1390 C LEU A 185 -6.246 77.934 77.2775 1.00100.07 A ATOM 1401 CD LEU A 185 -7.800 77.865 74.810 1.00 86.73 A ATOM 1402 C LEU A 185 -3.293 73.641 72.709 1.00100.07 A ATOM 1403 O LEU A 185 -3.293 73.641 72.709 1.00100.07 A ATOM 1405 CA GLY A 186 -2.973 73.175 73.910 1.00100.07 A ATOM 1406 C GLY A 186 -2.973 73.175 73.910 1.00100.07 A ATOM 1407 O GLY A 186 -2.973 73.175 73.910 1.00100.07 A ATOM 1407 O GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1408 C GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1407 O GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1408 C GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1409 C GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1410 CB GLM A 187 -1.226 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -1.226 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.256 73.504 1.00100.07 A ATOM 1410 CB GLM A 187 -0.257 75.857 70.00 A ATOM 1410 CB GLM A 187 -0.257 75.857 70.00 A ATOM 1410 CB GLM A 188 -0.257 70.00 A ATOM 1410 CB GLM A 188 -0.257 70.00 A ATOM 1410 CB GLM A 188 -0.257 70.00 A ATOM 1411 CB GLM A 188 -0.257 70.00 A ATOM 1411 CB GLM A 188 -0.257 70.00 A	ATOM	1393	NH2	ARG A	184	-9.219	76.834	70.953	1.00100.07	Α
ATOM 1396 N LEU A 185 -3.315 76.099 72.041 1.00100.07 A ATOM 1398 CB LEU A 185 -5.447 74.934 72.041 1.00100.07 A ATOM 1399 CB LEU A 185 -5.447 74.934 72.041 1.00 86.73 A ATOM 1399 CB LEU A 185 -5.447 74.934 72.041 1.00 86.73 A ATOM 1401 CD LEU A 185 -5.647 74.934 72.041 1.00 86.73 A ATOM 1401 CD LEU A 185 -5.800 75.600 75.										
ATOM 1398 CB LEU A 185 -5.447 74.934 72.482 1.00 86.73 A ATOM 1400 CDI LEU A 185 -7.725 75.600 73.244 1.00 86.73 A ATOM 1401 CDI LEU A 185 -7.725 75.600 73.244 1.00 86.73 A ATOM 1401 CDI LEU A 185 -7.725 75.600 73.244 1.00 86.73 A ATOM 1401 CDI LEU A 185 -3.293 73.641 72.709 1.00100.07 A ATOM 1402 CD LEU A 186 -3.293 73.641 73.200 1.00100.07 A ATOM 1404 D LEU A 186 -3.293 73.641 73.709 1.00100.07 A ATOM 1405 CG LEU A 186 -2.215 71.908 74.137 1.00100.07 A ATOM 1405 CG LEU A 186 -2.215 71.908 74.137 1.00100.07 A ATOM 1405 CG LEU A 186 -2.315 71.908 74.137 1.00100.07 A ATOM 1408 N GIAN A 187 -1.226 73.504 75.556 1.00100.07 A ATOM 1407 CG LEU A 186 -3.293 73.641 73.504 75.559 1.00100.07 A ATOM 1408 N GIAN A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1408 CG LEU A 186 -0.848 71.295 75.559 1.00100.07 A ATOM 1408 CG LEU A 186 -0.848 71.295 77.904 1.00190.07 A ATOM 1408 CG LEU A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1410 CB GIAN A 187 -0.386 73.186 76.860 1.00 98.59 A ATOM 1411 CG GIAN A 187 -0.386 72.722 78.1994 1.00 98.59 A ATOM 1411 CG GIAN A 187 -3.566 72.722 78.1994 1.00 98.59 A ATOM 1415 C GIAN A 187 -3.646 72.230 78.396 79.722 78.1994 1.00 98.59 A ATOM 1415 C GIAN A 187 -3.646 72.230 78.396 79.7272 78.1994 1.00 98.59 A ATOM 1415 C GIAN A 187 -3.646 72.230 78.1994 1.00 98.59 A ATOM 1416 C GIAN A 187 -3.646 72.230 78.1994 1.00 98.59 A ATOM 1416 C GIAN A 187 -3.646 72.230 78.1994 1.00 98.59 A ATOM 1416 C GIAN A 187 -3.646 72.230 78.1994 1.00 99.87 A ATOM 1416 C GIAN A 187 -3.646 72.230 78.1994 1.00 99.87 A ATOM 1416 C GIAN A 188 1.279 77.503 76.506 1.00 99.87 A ATOM 1416 C GIAN A 188 1.279 77.503 76.506 1.00 99.87 A ATOM 1416 C GIAN A 188 1.279 77.503 76.506 1.00 99.87 A ATOM 1420 CG ARGA 188 1.279 77.503 76.506 1.00 99.87 A ATOM 1420 CG ARGA 188 1.279 77.503 76.506 1.00 99.87 A ATOM 1420 CG ARGA 188 1.107 78.786 77.795 77.503 76.506 1.00 99.87 A ATOM 1423 72.248 73										A
ATOM 1400 CD1 LEU A 185										
ATOM 1401 CDZ LEU A 185		1399	CG	LEU A	185	-6.248	75.931	73.343	1.00 86.73	
ATOM 1402 C LEU A 185										
ATOM 1404 N GLY A 186 -2.973 73.175 73.910 1.00100.07 A ATOM 1406 C GLY A 186 -2.315 71.908 74.137 1.00100.07 A ATOM 1406 C GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1407 O GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1408 N GLN A 187 -1.226 73.504 75.546 1.00100.07 A ATOM 1408 N GLN A 187 -1.226 73.504 75.546 1.00100.07 A ATOM 1410 CB GLN A 187 -0.386 74.808 76.567 1.00100.07 A ATOM 1410 CB GLN A 187 -0.386 74.808 76.5860 1.00 98.59 A ATOM 1411 CG GLN A 187 -0.386 74.808 76.5860 1.00 98.59 A ATOM 1412 CD GLN A 187 -0.386 74.250 77.276 1.00 98.59 A ATOM 1413 CB GLN A 187 -0.259 73.200 79.265 72.22 78.190 1.00 98.59 A ATOM 1415 CB GLN A 187 -0.259 73.250 77.276 1.00 98.59 A ATOM 1415 CB GLN A 187 -0.259 73.2250 77.276 1.00 98.59 A ATOM 1417 N ABG A 188 -0.820 75.176 79.466 1.00 98.59 A ATOM 1417 N ABG A 188 -0.820 75.176 76.899 1.00 99.87 A ATOM 1418 CA ABG A 188 -0.820 75.176 76.899 1.00 99.87 A ATOM 1419 CB ABG A 188 2.149 77.503 76.506 1.00 99.87 A ATOM 1419 CB ABG A 188 2.149 78.617 77.503 76.506 1.00 99.87 A ATOM 1420 CG ABG A 188 2.149 78.112 77.612 1.0010.07 A ATOM 1421 CD ABG A 188 2.149 78.112 77.612 1.0010.07 A ATOM 1421 CD ABG A 188 2.149 78.112 77.612 1.0010.07 A ATOM 1422 NE ABG A 188 1.317 78.06 78.070 1.0010.07 A ATOM 1422 NE ABG A 188 1.317 78.06 78.070 1.0010.07 A ATOM 1423 CZ ABG A 188 1.411 80.004 80.070 1.0010.07 A ATOM 1425 NE ABG A 188 1.877 80.66 81.800 1.0010.07 A ATOM 1425 NE ABG A 188 1.877 80.66 81.800 1.0010.07 A ATOM 1427 CD ABG A 188 1.877 80.66 81.800 1.0010.07 A ATOM 1427 CD ABG A 188 1.877 80.66 81.800 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188 1.107 81.602 82.599 1.0010.07 A ATOM 1427 CD ABG A 188										
ATOM 1405 CA GLY A 186 -2.315 71.908 74.137 1.00100.07 A ATOM 1407 O GLY A 186 -0.848 71.295 75.959 1.00100.07 A ATOM 1407 O GLY A 186 -0.848 71.295 75.959 1.00100.07 A ATOM 1408 N GLN A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1409 CA GLN A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1400 CB GLN A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1410 CB GLN A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1411 CG GLN A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1412 CD GLN A 187 -0.386 74.080 76.597 1.00100.07 A ATOM 1413 CD GLN A 187 -0.386 74.080 77.904 1.00 88.59 A ATOM 1413 CD GLN A 187 -0.597 1.00100.07 A ATOM 1414 CD GLN A 187 -0.597 1.00100.07 A ATOM 1415 CD GLN A 187 -0.657 1.00100.07 A ATOM 1415 CD GLN A 187 -0.657 1.00100.07 A ATOM 1416 CD GLN A 187 -0.655 75.645 7.008 1.00100.07 A ATOM 1416 CD GLN A 187 -0.259 75.645 1.00100.07 A ATOM 1417 N ARG A 188 1.297 77.503 76.506 1.00100.07 A ATOM 1418 CA ARG A 188 1.297 97.503 76.506 1.00100.07 A ATOM 1419 CB ARG A 188 1.297 97.503 76.506 1.00100.07 A ATOM 1420 CD ARG A 188 1.297 97.503 76.506 1.00100.07 A ATOM 1420 CD ARG A 188 1.219 78.112 77.612 1.00100.07 A ATOM 1420 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1420 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1422 NE ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1422 NE ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1422 NE ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1427 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1427 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1429 CA ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1429 CA ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1420 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1420 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1420 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1420 CD ARG A 188 1.317 80.00100.07 A ATOM 1420 CD ARG A 188 1.317 80.00100.07 A ATOM 1420 CD ARG A 188 1.317 80.00100.07 A ATOM 1420 CD ARG A 188 1.317 80.00100.07 A ATOM 1420 CD ARG A 188 1.317 80.00100.07 A ATOM 1420 CD ARG A 188 1.317 80.001										
ATOM 1406 C GLY A 186 -1.383 72.200 75.302 1.00100.07 A ATOM 1407 O GLY A 186 -0.848 71.295 75.959 1.00100.07 A ATOM 1408 N GLN A 187 -1.226 73.504 75.546 1.00100.07 A ATOM 1400 CA GLN A 187 -0.386 73.186 76.860 1.00 98.59 A ATOM 1410 CB GLN A 187 0.836 73.186 76.860 1.00 98.59 A ATOM 1411 CG GLN A 187 1.811 73.705 77.904 1.00 98.59 A ATOM 1412 CD GLN A 187 2.936 72.722 78.190 1.00 98.59 A ATOM 1413 OEI GLN A 187 2.936 72.722 78.190 1.00 98.59 A ATOM 1413 OEI GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1414 NEZ GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1414 NEZ GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1414 NEZ GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1414 NEZ GLN A 187 3.609 72.250 77.266 1.00 98.59 A ATOM 1414 NEZ GLN A 187 3.609 77.503 76.866 1.0010.07 A ATOM 1412 CD ATOM 1418 CD ATOM 1419 CD ATOM 1420 CD ATOM 1420 CD ATOM 1420 CD ATOM 1421 NEX ATOM 1421 NEX ATOM 1421 NEX ATOM 1421 NEX ATOM 1422 NE ATOM 1428 NEX ATOM 1422 NE ATOM 1428 NEX ATOM 1422 NE ATOM 1428 NEX ATOM 1426 CD ATOM 1428 NEX ATOM 1426 CD ATOM 1428 NEX ATOM 1427 O ATOM 1428 NEX ATOM 1427 NEX ATOM 1428 NEX ATOM 1429 CD ATOM 1429 CD ATOM 1429 CD ATOM 1429 NEX ATOM 1429 CD ATOM 1429 NEX ATOM 1429 CD ATOM 1429 NEX ATOM										
ATOM 1409 N GLN A 187 -1.226 73.504 75.546 1.00100.07 A ATOM 1410 CB GLN A 187 -0.386 73.186 76.860 1.00 98.59 A ATOM 1411 CG GLN A 187 1.811 73.705 77.904 1.00 98.59 A ATOM 1412 CD GLN A 187 2.936 72.722 78.190 1.00 98.59 A ATOM 1413 OEL GLN A 187 2.936 72.722 78.190 1.00 98.59 A ATOM 1413 OEL GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1415 CD GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1415 CD GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1415 CD GLN A 187 3.609 72.250 77.276 1.00 98.59 A ATOM 1415 CD GLN A 187 3.609 72.250 77.4960 1.00100.07 A ATOM 1416 CD GLN A 187 -0.259 75.425 76.485 76.886 1.00100.07 A ATOM 1417 N ARGA 188 0.820 76.176 76.899 1.00 99.87 A ATOM 1419 CB ARGA 188 1.279 77.503 76.506 1.00 99.87 A ATOM 1419 CB ARGA 188 1.279 77.503 76.506 1.00 99.87 A ATOM 1420 CG ARGA 188 1.317 78.786 78.701 1.00100.07 A ATOM 1421 CD ARGA 188 1.317 78.786 78.700 1.00100.07 A ATOM 1422 NE ARGA 188 1.317 78.786 78.701 1.00100.07 A ATOM 1422 NE ARGA 188 1.317 78.786 78.701 1.00100.07 A ATOM 1422 NE ARGA 188 1.317 88.765 81.820 1.00100.07 A ATOM 1424 NH1 ARGA 188 3.111 80.204 80.707 1.00100.07 A ATOM 1425 NH2 ARGA 188 1.377 87.865 78.557 1.00100.07 A ATOM 1426 CD ARGA 188 1.377 87.865 78.557 1.00100.07 A ATOM 1427 NH ARGA 188 1.377 87.867 78.571 1.00100.07 A ATOM 1428 NH2 ARGA 188 1.377 87.867 78.257 99.57 1.00100.07 A ATOM 1428 NH2 ARGA 188 1.977 87.857 79.557 1.00100.07 A ATOM 1428 NH2 ARGA 188 1.977 87.857 79.557 1.00100.07 A ATOM 1428 NH2 ARGA 188 1.977 87.858 79.857 1.00100.07 A ATOM 1428 NH2 ARGA 188 1.977 87.858 79.857 79.957 1.00100.07 A ATOM 1429 NH2	ATOM	1406	C		186	-1.383	72.200	75.302	1.00100.07	
ATOM 1409 CA GLN A 187										
ATOM 1411 CG GLN A 187		1409				-0.386	74.080	76.597		A
ATOM 1412 CD GLN A 187										
ATOM 1414 NE2 GIN A 187										
ATOM 1415 C GIN A 187 -0.259 75.827 74.950 1.00100.07 A ATOM 1416 O GIN A 187 -0.259 75.827 74.950 1.00100.07 A ATOM 1417 N ARG A 188 0.820 76.176 76.899 1.00 99.87 A ATOM 1418 CA ARG A 188 1.279 77.503 75.506 1.00100.07 A ATOM 1419 CB ARG A 188 1.279 77.503 75.506 1.00 99.87 A ATOM 1420 CG ARG A 188 1.277 78.786 78.700 1.00100.07 A ATOM 1421 CD ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1422 NE ARG A 188 1.317 78.786 78.700 1.00100.07 A ATOM 1422 NE ARG A 188 1.317 78.786 80.707 1.00100.07 A ATOM 1423 CZ ARG A 188 1.411 80.204 80.707 1.00100.07 A ATOM 1424 NH1 ARG A 188 1.411 80.204 80.707 1.00100.07 A ATOM 1425 NH2 ARG A 188 1.411 80.505 82.239 1.00100.07 A ATOM 1426 C ARG A 188 1.107 81.602 82.509 1.00100.07 A ATOM 1426 C ARG A 188 1.980 77.592 75.153 1.009.987 A ATOM 1427 O ARG A 188 1.980 77.592 75.153 1.009.987 A ATOM 1428 N THR A 189 1.559 78.587 74.374 1.00100.07 A ATOM 1429 CA THR A 189 2.507 78.857 74.374 1.00100.07 A ATOM 1429 CA THR A 189 2.507 88.537 74.374 1.00100.07 A ATOM 1429 CA THR A 189 2.507 88.537 74.374 1.00100.07 A ATOM 1430 CB THR A 189 2.503 80.348 73.033 1.00100.07 A ATOM 1431 CB THR A 189 3.308 80.534 77.227 11.00100.07 A ATOM 1431 CB THR A 189 3.308 677.927 77.1605 1.00100.07 A ATOM 1433 CB THR A 189 3.308 677.927 77.1605 1.00100.07 A ATOM 1433 CB THR A 189 3.308 77.921 72.568 1.00100.07 A ATOM 1433 CB THR A 189 3.308 77.921 72.568 1.00100.07 A ATOM 1434 CB THR A 189 3.308 77.227 77.1605 1.00100.07 A ATOM 1435 N ASP A 190 4.302 78.137 72.926 1.00100.07 A ATOM 1436 CB ASP A 190 5.587 76.334 74.019 1.00100.07 A ATOM 1437 CB ASP A 190 5.587 77.532 77.605 1.00100.07 A ATOM 1438 CB ASP A 190 5.587 77.572 77.605 1.00100.07 A ATOM 1439 CD LEU A 191 4.745 75.510 77.000 1.009.97 A ATOM 1444 CB ASP A 190 5.587 77.373 77.605 1.0009.97 A ATOM 1444 CB ASP A 190 5.587 77.375 77.605 77.000 1.009.99 77 A ATOM 1444 CB ASP A 190 5.587 77.375 77.605 77.000 1.009.99 77 A ATOM 1445 CB ASP A 190 5.587 77.375 77.603 77.000 1.009.99 77 A ATOM 1445 CB ASP A 190 5.587 77.375 77.605 1.000 88.88 A ATOM 144			_							
ATOM 1416 O GIN A 187										
ATOM 1419 CB ARG A 188	ATOM	1416	0	GLN A	187	-0.259	75.827	74.960	1.00100.07	A
ATOM 1419 CB ARG A 188										
ATOM 1421 CD ARG A 188										
ATOM 1423 CZ ARG A 188										
ATOM 1424 NH1 ARG A 188										
ATOM 1426 C ARG A 188								81.820	1.00100.07	
ATOM 1426 C ARG A 188 1.980 77.592 75.153 1.00 99.87 A ATOM 1427 O ARG A 188 1.559 78.587 74.431 1.00 99.87 A ATOM 1428 N THR A 189 1.559 78.587 74.374 1.00100.07 A ATOM 1429 CA THR A 189 2.077 78.863 73.033 1.00100.07 A ATOM 1431 CB THR A 189 2.503 80.348 72.881 1.00100.07 A ATOM 1431 CG THR A 189 1.332 81.167 72.741 1.00100.07 A ATOM 1432 CG2 THR A 189 3.408 80.534 71.651 1.00100.07 A ATOM 1433 C THR A 189 3.238 77.991 72.568 1.00100.07 A ATOM 1433 C THR A 189 3.238 77.991 72.568 1.00100.07 A ATOM 1434 O THR A 189 3.238 77.991 72.568 1.00100.07 A ATOM 1435 N ASP A 190 5.867 76.334 74.005 1.00 96.21 A ATOM 1436 CA ASP A 190 5.867 76.344 74.019 1.00 99.97 A ATOM 1438 CG ASP A 190 5.867 76.344 74.019 1.00 99.97 A ATOM 1439 ODJ ASP A 190 5.867 76.943 75.313 1.00 99.97 A ATOM 1440 ODZ ASP A 190 5.732 76.708 75.273 1.00 99.97 A ATOM 1441 C ASP A 190 5.732 76.708 76.368 1.00 99.97 A ATOM 1442 O ASP A 190 5.732 76.708 76.368 1.00 99.97 A ATOM 1444 CA LEU A 191 4.483 74.620 70.580 1.00 96.21 A ATOM 1444 CA LEU A 191 4.483 74.620 70.594 1.00 88.88 A ATOM 1445 CB LEU A 191 4.483 72.671 71.805 1.00 82.14 A ATOM 1446 CG LEU A 191 4.483 72.671 71.805 1.00 82.14 A ATOM 1447 CDJ LEU A 191 4.383 72.671 71.805 1.00 82.14 A ATOM 1448 CDZ LEU A 191 4.660 75.214 69.212 1.00 82.14 A ATOM 1448 CDZ LEU A 191 4.660 75.214 69.212 1.00 82.14 A ATOM 1445 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1445 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1455 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1455 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1455 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1455 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1455 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1455 CB LEU A 191 4.660 75.214 69.212 1.00 88.82 A ATOM 1455 CB LEU A 191 4.660 75.214 69.212 1.00 88.82 A ATOM 1450 CD LEU A 191 4.660 75.214 69.212 1.00 88.42 A ATOM 1457 CB ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1457 CB ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1457 CB ASP A 192 6.744 74.1										
ATOM 1428 N THR A 189						1.980	77.592			
ATOM 1429 CA THR A 189 2.077 78.863 73.033 1.00100.07 A ATOM 1431 CG1 THR A 189 1.332 81.167 72.741 1.00100.07 A ATOM 1431 CG2 THR A 189 3.408 80.534 71.651 1.00100.07 A ATOM 1433 CG2 THR A 189 3.408 80.534 71.651 1.00100.07 A ATOM 1433 C THR A 189 3.298 77.991 72.568 1.00100.07 A ATOM 1433 C THR A 189 3.298 77.227 71.605 1.00100.07 A ATOM 1435 N ASP A 190 4.382 78.137 73.240 1.00 96.21 A ATOM 1435 N ASP A 190 5.588 77.376 72.926 1.00 96.21 A ATOM 1437 CB ASP A 190 5.588 77.376 72.926 1.00 96.21 A ATOM 1437 CB ASP A 190 5.588 77.376 72.926 1.00 99.97 A ATOM 1438 CG ASP A 190 6.367 76.943 75.313 1.00 99.97 A ATOM 1439 CD ASP A 190 7.403 77.643 75.273 1.00 99.97 A ATOM 1440 ODZ ASP A 190 5.452 76.630 71.616 1.00 99.97 A ATOM 1441 C ASP A 190 5.452 76.630 71.616 1.00 99.97 A ATOM 1441 C ASP A 190 5.452 76.630 71.616 1.00 96.21 A ATOM 1442 O ASP A 190 5.452 76.630 71.616 1.00 96.21 A ATOM 1444 CD ASP A 190 5.452 76.630 71.616 1.00 96.21 A ATOM 1444 CA LEU A 191 4.745 75.510 71.706 1.00 88.88 A ATOM 1444 CCA LEU A 191 4.745 75.510 71.706 1.00 88.88 A ATOM 1445 CB LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1446 CDZ LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1446 CDZ LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1445 CB LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1445 CB LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1445 CB LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1445 CB LEU A 191 3.769 74.051 70.700 1.00 82.14 A ATOM 1445 CB LEU A 191 3.769 74.051 70.700 1.00 82.14 A ATOM 1450 CD LEU A 191 3.769 74.051 70.700 1.00 82.14 A ATOM 1450 CD LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1450 CD LEU A 191 4.388 76.388 68.967 1.00 89.703 A ATOM 1451 N ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 CD ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1456 CD ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1456 CD ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1456 CD ASP A 192 7.85 7.95 7.96 60.052 1.00 97.03 A ATOM 1466 C LYS A 193 3.003 73.74.182 63.936 1.00 30.13 A ATOM 1466 C LYS A 193 3.63										
ATOM 1431 OGI THR A 189										
ATOM 1433 CZ THR A 189 3.408 80.534 71.6551 1.00100.07 A ATOM 1434 C THR A 189 3.238 77.991 72.568 1.00100.07 A ATOM 1435 N ASP A 190 3.996 77.227 71.605 1.00100.07 A ATOM 1436 CA ASP A 190 5.588 73.37 73.240 1.00 96.21 A ATOM 1437 CB ASP A 190 5.867 76.334 74.019 1.00 99.97 A ATOM 1438 CG ASP A 190 5.867 76.334 74.019 1.00 99.97 A ATOM 1438 CG ASP A 190 5.867 76.334 74.019 1.00 99.97 A ATOM 1438 CG ASP A 190 5.867 76.334 75.273 1.00 99.97 A ATOM 1440 0D2 ASP A 190 5.752 76.708 76.368 1.00 99.97 A ATOM 1440 0D2 ASP A 190 5.752 76.708 76.368 1.00 99.97 A ATOM 1441 C ASP A 190 5.452 76.630 71.616 1.00 96.21 A ATOM 1442 O ASP A 190 5.951 77.051 70.580 1.00 96.21 A ATOM 1443 N LEU A 191 4.745 75.510 71.066 1.00 96.21 A ATOM 1444 CA LEU A 191 4.745 75.510 71.066 1.00 96.21 A ATOM 1445 CB LEU A 191 3.076 74.051 70.700 1.00 88.88 A ATOM 1445 CB LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1446 CG LEU A 191 1.383 72.671 71.805 1.00 82.14 A ATOM 1447 CD1 LEU A 191 1.383 72.671 71.805 1.00 82.14 A ATOM 1448 CD2 LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1445 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1445 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1445 CB LEU A 191 4.660 75.214 69.212 1.00 82.14 A ATOM 1445 CB LEU A 191 4.660 75.214 69.212 1.00 82.14 A ATOM 1445 CB LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1450 O LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1451 N ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 CD A SPP A 192 5.384 74.256 67.596 1.00100.07 A ATOM 1455 CD A SPP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1456 CD ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1457 C ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.099 66.052 1.00 97.03 A ATOM 1456 CD LYS A 193 6.066 74.685 64.880 1.00 30.13 A ATOM 1457 C ASP A 193 6.066 74.685 64.880 1.00 30.13 A ATOM 1468 N LYS A 193 60.066 74.685 64.880 1.00 30.13 A ATOM 1468 N LYS A 193 60.066 74.68										
ATOM 1433 C THR A 189 3.036 77.227 71.605 1.00100.07 A ATOM 1435 N ASP A 190 4.382 78.137 73.240 1.00 96.21 A ATOM 1435 N ASP A 190 5.588 77.376 72.926 1.00 96.21 A ATOM 1436 CA ASP A 190 5.867 76.334 74.019 1.00 99.97 A ATOM 1437 CB ASP A 190 5.867 76.334 74.019 1.00 99.97 A ATOM 1438 CG ASP A 190 7.403 77.643 75.273 1.00 99.97 A ATOM 1439 OD1 ASP A 190 7.403 77.643 75.273 1.00 99.97 A ATOM 1440 OD2 ASP A 190 5.732 76.708 76.368 1.00 99.97 A ATOM 1441 C ASP A 190 5.452 76.630 71.616 1.00 96.21 A ATOM 1442 O ASP A 190 5.961 77.051 70.580 1.00 96.21 A ATOM 1443 N LEU A 191 4.745 75.510 71.706 1.00 88.88 A ATOM 1444 CA LEU A 191 4.483 74.620 70.594 1.00 88.88 A ATOM 1445 CB LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1446 CG LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1448 CD2 LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1449 C LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1449 C LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1450 O LEU A 191 4.388 63.386 8.967 1.00 97.03 A ATOM 1451 N ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1452 CA ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1454 CG ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 OD1 ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1456 OD2 ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 7.785 74.256 67.596 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1458 O ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1459 C LEU A 194 6.667 74.685 64.880 1.00 30										
ATOM 1435 N ASP A 190	ATOM	1433		THR A	189	3.238	77.991	72.568	1.00100.07	A
ATOM 1436 CA ASP A 190 5.588 77.376 72.926 1.00 96.21 A ATOM 1437 CB ASP A 190 5.867 76.334 74.019 1.00 99.97 A ATOM 1438 CG ASP A 190 6.367 76.943 75.313 1.00 99.97 A ATOM 1439 OD1 ASP A 190 7.403 75.313 1.00 99.97 A ATOM 1440 OD2 ASP A 190 5.732 76.708 76.368 1.00 99.97 A ATOM 1441 C ASP A 190 5.732 76.708 76.368 1.00 99.97 A ATOM 1442 O ASP A 190 5.961 77.051 70.580 1.00 96.21 A ATOM 1443 N LEU A 191 4.745 75.510 71.706 1.00 88.88 A ATOM 1444 CA LEU A 191 4.483 74.620 70.594 1.00 88.88 A ATOM 1444 CA LEU A 191 3.076 73.433 72.032 1.00 82.14 A ATOM 1446 CG LEU A 191 1.383 72.671 70.700 1.00 82.14 A ATOM 1447 CD1 LEU A 191 1.383 72.032 1.00 82.14 A ATOM 1448 CD2 LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1449 C LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1450 O LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1451 N ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1452 CA ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 CD1 ASP A 192 7.785 74.256 67.596 1.00100.07 A ATOM 1456 OD2 ASP A 192 8.067 75.379 66.494 1.00100.07 A ATOM 1457 C ASP A 192 8.067 75.379 66.049 1.00100.07 A ATOM 1456 CG LEU A 191 8.066 74.685 67.909 66.052 1.00 97.03 A ATOM 1456 CD ASP A 192 8.067 75.379 66.494 1.00100.07 A ATOM 1456 CD ASP A 192 8.067 75.379 66.049 1.00100.07 A ATOM 1457 C ASP A 192 8.067 75.379 66.050 1.00 97.03 A ATOM 1456 CD ASP A 192 8.067 75.379 66.050 1.00 97.03 A ATOM 1457 C ASP A 192 8.067 75.379 66.050 1.00 97.03 A ATOM 1456 CD ASP A 192 8.067 75.379 66.050 1.00 97.03 A ATOM 1456 CD ASP A 192 8.067 75.379 66.050 1.00 97.03 A ATOM 1457 C ASP A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1458 N LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1458 N LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1468 N LYS A 193 3.670 74.183 61.280 1.00 88.42 A ATOM 1468 N LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1468 N LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1469 CA LEU A 194 4.205 73.030 62.105 1.00 34.90 A ATOM 1471 CG LEU A 194 6.671 71.285 60.020 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.6671 70.897 58.590 1										
ATOM 1438 CG ASP A 190 6.367 76.943 75.313 1.00 99.97 A ATOM 1440 OD2 ASP A 190 7.403 77.643 75.273 1.00 99.97 A ATOM 1441 C ASP A 190 5.732 76.708 76.368 1.00 99.97 A ATOM 1441 C ASP A 190 5.452 76.630 71.616 1.00 96.21 A ATOM 1442 O ASP A 190 5.961 77.051 70.580 1.00 96.21 A ATOM 1443 N LEU A 191 4.745 75.510 71.706 1.00 88.88 A ATOM 1444 CA LEU A 191 4.483 74.620 70.594 1.00 88.88 A ATOM 1445 CB LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1446 CG LEU A 191 2.676 73.433 72.032 1.00 82.14 A ATOM 1447 CD1 LEU A 191 1.383 72.671 71.805 1.00 82.14 A ATOM 1449 C LEU A 191 1.383 72.671 71.805 1.00 82.14 A ATOM 1449 C LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1450 O LEU A 191 4.358 76.388 68.967 1.00 88.88 A ATOM 1451 N ASP A 192 5.334 74.718 66.927 1.00 97.03 A ATOM 1452 CA ASP A 192 5.334 74.718 66.927 1.00 97.03 A ATOM 1454 CG ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 OD1 ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1455 OD ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1455 OD1 ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1455 OD ASP A 192 8.367 75.379 68.066 1.00100.07 A ATOM 1455 OD ASP A 192 8.367 75.379 68.066 1.00100.07 A ATOM 1455 OD ASP A 192 8.367 75.379 68.066 1.00100.07 A ATOM 1455 OD ASP A 192 8.367 75.379 68.066 1.00100.07 A ATOM 1455 OD ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1455 OD ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1455 OD ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1456 CD LYS A 193 3.670 74.182 63.936 1.00 30.13 A ATOM 1466 CE LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1468 N LYS A 193 3.670 74.183 62.517 1.00 88.42 A ATOM 1468 N LYS A 193 3.670 74.183 62.507 1.00 88.42 A ATOM 1468 N LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1468 N LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1467 CB LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1467 CB LEU A 194 4.205 73.030 62.105 1.00 34.90 A ATOM 1471 CG LEU A 194 6.671 71.285 60.020 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.667 70.294 60.834 1.00 34.90 A	ATOM	1436	CA	ASP A	190	5.588	77.376	72.926	1.00 96.21	A
ATOM 1440 OD2 ASP A 190										
ATOM 1441 C ASP A 190 5.452 76.630 71.616 1.00 96.21 A ATOM 1442 O ASP A 190 5.961 77.051 70.580 1.00 96.21 A ATOM 1443 N LEU A 191 4.745 75.510 71.706 1.00 88.88 A ATOM 1444 CA LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1445 CB LEU A 191 2.676 73.433 72.032 1.00 82.14 A ATOM 1446 CG LEU A 191 1.383 72.671 71.805 1.00 82.14 A ATOM 1448 CD2 LEU A 191 3.769 72.508 72.506 1.00 82.14 A ATOM 1449 C LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1450 O LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1451 N ASP A 192 5.134 74.360 68.310 1.00 97.03 A ATOM 1452 CA ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1453 CB ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 ODI ASP A 192 7.785 74.256 67.596 1.00100.07 A ATOM 1455 ODI ASP A 192 8.367 75.379 68.066 1.00100.07 A ATOM 1457 C ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1457 C ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1457 C ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1457 C ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1457 C ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1458 O ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1457 C ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1458 O ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1457 C ASP A 193 3.673 73.110 66.439 1.00 97.03 A ATOM 1458 O ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1458 O ASP A 192 8.321 73.110 66.439 1.00 97.03 A ATOM 1458 O ASP A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1460 CA LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1461 CB LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1463 CD LYS A 193 3.670 74.183 62.527 1.00 88.42 A ATOM 1466 C LYS A 193 3.670 74.183 62.527 1.00 30.13 A ATOM 1467 O LYS A 193 3.670 74.183 62.527 1.00 30.13 A ATOM 1468 N LEU A 194 4.880 72.873 60.790 1.00 31.31 A ATOM 1468 N LEU A 194 4.880 72.873 60.070 1.00 34.90 A ATOM 1470 CB LEU A 194 6.671 71.285 60.020 1.00 34.90 A ATOM 1471 CG LEU A 194 6.671 71.285 60.020 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.666 70.857 58.590 1.00 34.90 A	ATOM	1439	OD1	ASP A	190	7.403	77.643	75.273	1.00 99.97	A
ATOM 1442 O ASP A 190 5.961 77.051 70.580 1.00 96.21 A ATOM 1443 N LEU A 191 4.745 75.510 71.706 1.00 88.88 A ATOM 1445 CB LEU A 191 3.076 74.051 70.700 1.00 82.14 A ATOM 1446 CG LEU A 191 2.676 73.433 72.032 1.00 82.14 A ATOM 1447 CD1 LEU A 191 1.383 72.671 71.805 1.00 82.14 A ATOM 1448 CD2 LEU A 191 3.769 72.508 72.566 1.00 82.14 A ATOM 1449 C LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1450 O LEU A 191 4.588 76.388 68.967 1.00 82.14 A ATOM 1451 N ASP A 192 5.134 74.360 68.310 1.00 97.03 A ATOM 1452 CA ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 CG ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1455 CG ASP A 192 67.44 74.12 66.494 1.00100.07 A ATOM 1455 OD1 ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1455 OD1 ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1455 C ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1458 O ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1458 O ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1458 O ASP A 193 3.673 73.110 66.439 1.00 97.03 A ATOM 1456 CB LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1460 CA LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1461 CB LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1464 CB LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1466 CB LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1466 CB LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1468 C LYS A 193 3.073 74.182 63.936 1.00 88.42 A ATOM 1468 N LEU A 194 4.807 77.409 62.617 1.00 88.42 A ATOM 1468 N LEU A 194 4.807 77.409 60.604 1.00 30.13 A ATOM 1468 N LEU A 194 4.807 77.402 61.048 1.00 30.13 A ATOM 1467 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 CB LEU A 194 4.807 77.875 60.000 1.00 34.90 A ATOM 1470 CB LEU A 194 6.671 71.285 60.000 1.00 34.90 A ATOM 1471 CG LEU A 194 6.671 71.285 60.000 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.671 71.285 60.000 1.00 34.90 A										
ATOM 1444 CA LEU A 191						5.961	77.051			
ATOM 1445 CB LEU A 191										
ATOM 1447 CD1 LEU A 191 3.769 72.508 72.506 1.00 82.14 A ATOM 1448 CD2 LEU A 191 3.769 72.508 72.506 1.00 82.14 A ATOM 1449 C LEU A 191 4.660 75.214 69.212 1.00 88.88 A ATOM 1450 O LEU A 191 4.358 76.388 68.967 1.00 88.88 A ATOM 1451 N ASP A 192 5.134 74.360 68.310 1.00 97.03 A ATOM 1452 CA ASP A 192 5.334 74.186 66.927 1.00 97.03 A ATOM 1453 CB ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1455 OD1 ASP A 192 7.785 74.256 67.596 1.00100.07 A ATOM 1455 OD2 ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1455 OD2 ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1458 O ASP A 192 4.294 74.099 66.052 1.00 97.03 A ATOM 1459 N LYS A 193 3.673 73.110 66.439 1.00 97.03 A ATOM 1459 N LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1461 CB LYS A 193 3.073 74.182 63.963 1.00 88.42 A ATOM 1463 CD LYS A 193 0.919 74.908 62.762 1.00 88.42 A ATOM 1463 CD LYS A 193 0.925 76.119 62.617 1.00 88.42 A ATOM 1465 NZ LYS A 193 3.673 75.212 61.836 1.00 88.42 A ATOM 1466 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1466 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1466 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 O LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1466 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 C B LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1467 C B LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1469 CA LEU A 194 6.671 71.285 60.000 1.00 34.90 A ATOM 1470 CB LEU A 194 6.671 71.285 60.000 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90 A										
ATOM 1448 CD2 LEU A 191								72.032		
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ATOM 1452 CA ASP A 192 5.383 74.718 66.927 1.00 97.03 A ATOM 1453 CB ASP A 192 6.744 74.172 66.494 1.00100.07 A ATOM 1455 CG ASP A 192 7.785 74.256 67.596 1.00100.07 A ATOM 1455 OD1 ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1456 OD2 ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1457 C ASP A 192 4.294 74.099 66.052 1.00 97.03 A ATOM 1458 O ASP A 192 3.673 73.110 66.439 1.00 97.03 A ATOM 1459 N LYS A 193 4.066 74.685 64.880 1.00 30.13 A ATOM 1460 CA LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1461 CB LYS A 193 1.833 75.071 63.963 1.00 88.42 A ATOM 1462 CG LYS A 193 0.919 74.908 62.762 1.00 88.42 A ATOM 1463 CD LYS A 193 0.025 76.119 62.617 1.00 88.42 A ATOM 1464 CE LYS A 193 0.025 76.119 62.617 1.00 88.42 A ATOM 1465 C LYS A 193 -0.670 76.138 61.280 1.00 88.42 A ATOM 1466 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 O LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 C LYS A 194 4.205 73.030 62.769 1.00 31.31 A ATOM 1467 CB LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1470 CB LEU A 194 6.671 71.285 60.000 1.00 34.90 A ATOM 1471 CG LEU A 194 6.566 70.857 58.590 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90										
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ATOM 1455 OD1 ASP A 192 8.067 75.379 68.066 1.00100.07 A ATOM 1456 OD2 ASP A 192 8.321 73.198 67.994 1.00100.07 A ATOM 1457 C ASP A 192 4.294 74.099 66.052 1.00 97.03 A ATOM 1458 O ASP A 192 3.673 73.110 66.439 1.00 97.03 A ATOM 1459 N LYS A 193 4.066 74.685 64.880 1.00 30.13 A ATOM 1460 CA LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1461 CB LYS A 193 1.833 75.071 63.963 1.00 88.42 A ATOM 1462 CG LYS A 193 0.919 74.908 62.762 1.00 88.42 A ATOM 1463 CD LYS A 193 0.025 76.119 62.617 1.00 88.42 A ATOM 1464 CE LYS A 193 -0.670 76.138 61.280 1.00 88.42 A ATOM 1465 NZ LYS A 193 -1.297 77.462 61.048 1.00 88.42 A ATOM 1466 C LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 O LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1467 O LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1469 CA LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1470 CB LEU A 194 6.671 71.285 60.002 1.00 34.90 A ATOM 1471 CG LEU A 194 6.671 71.285 60.002 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90										
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ATOM 1458 O ASP A 192 3.673 73.110 66.439 1.00 97.03 A ATOM 1459 N LYS A 193 4.066 74.685 64.880 1.00 30.13 A ATOM 1460 CA LYS A 193 3.073 74.182 63.936 1.00 30.13 A ATOM 1461 CB LYS A 193 1.833 75.071 63.963 1.00 88.42 A ATOM 1462 CG LYS A 193 0.919 74.908 62.762 1.00 88.42 A ATOM 1463 CD LYS A 193 0.025 76.119 62.617 1.00 88.42 A ATOM 1465 NZ LYS A 193 -0.670 76.138 61.280 1.00 88.42 A ATOM 1465 NZ LYS A 193 -1.297 77.462 61.048 1.00 88.42 A ATOM 1466 C LYS A 193 3.670 74.183 62.527 1.00 30.13 A ATOM 1467 O LYS A 193 3.670 74.183 62.527 1.00 30.13 A ATOM 1468 N LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1470 CB LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1471 CG LEU A 194 6.671 71.285 60.020 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90										
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ATOM 1465 NZ LYS A 193 -1.297 77.462 61.048 1.00 88.42 A ATOM 1466 C LYS A 193 3.670 74.183 62.527 1.00 30.13 A ATOM 1467 O LYS A 193 3.632 75.212 61.836 1.00 30.13 A ATOM 1468 N LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1470 CB LEU A 194 5.268 71.422 60.604 1.00 34.90 A ATOM 1471 CG LEU A 194 66.71 71.285 60.020 1.00 34.90 A ATOM 1472 CD1 LEU A 194 7.490 70.294 60.834 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90 A										
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ATOM 1468 N LEU A 194 4.205 73.030 62.105 1.00 31.31 A ATOM 1469 CA LEU A 194 4.850 72.873 60.790 1.00 31.31 A ATOM 1470 CB LEU A 194 5.268 71.422 60.604 1.00 34.90 A ATOM 1471 CG LEU A 194 66.671 71.285 60.020 1.00 34.90 A ATOM 1472 CD1 LEU A 194 7.490 70.294 60.834 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90 A										
ATOM 1470 CB LEU A 194 5.268 71.422 60.604 1.00 34.90 A ATOM 1471 CG LEU A 194 6.671 71.285 60.020 1.00 34.90 A ATOM 1472 CD1 LEU A 194 7.490 70.294 60.834 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90 A	MOTA	1468	N	LEU A	194	4.205	73.030	62.105	1.00 31.31	A
ATOM 1471 CG LEU A 194 6.671 71.285 60.020 1.00 34.90 A ATOM 1472 CD1 LEU A 194 7.490 70.294 60.834 1.00 34.90 A ATOM 1473 CD2 LEU A 194 6.566 70.857 58.590 1.00 34.90 A										
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	MOTA	1472		LEU A	194	7.490	70.294	60.834	1.00 34.90	A

ATOM	1475	0	LEU A		2.958	73.993	59.844	1.00 31.31	A
ATOM ATOM	1476 1477	N CA	THR A		4.321 3.510	72.941 73.364	58.404 57.265	1.00 32.61 1.00 32.61	A A
ATOM ATOM	1478 1479	CB OG1	THR A		3.084 2.132	74.840 75.199	57.441 56.436	1.00 82.69 1.00 82.69	A A
ATOM	1480	CG2	THR A		4.301	75.756	57.332	1.00 82.69	A
ATOM	1481 1482	0	THR A		4.193	73.264 73.942	55.900	1.00 32.61	A
ATOM ATOM	1483	N	THR A		3.767 5.217	72.424	54.966 55.751	1.00 32.61 1.00 44.55	A A
ATOM	1484	CA	LEU A		5.933	72.366	54.470	1.00 44.55	A
ATOM ATOM	1485 1486	CB CG	LEU A		7.018 6.714	71.281 69.816	54.486 54.729	1.00 31.90 1.00 31.90	A A
MOTA	1487	CD1	LEU A	196	7.990	69.100	55.175	1.00 31.90	A
ATOM ATOM	1488 1489	CD2	LEU A		5.669 5.105	69.706 72.265	55.793 53.216	1.00 31.90 1.00 44.55	A A
ATOM	1490	0	LEU A	196	4.207	71.433	53.108	1.00 44.55	A
ATOM ATOM	1491 1492	N CA	ARG A		5.433 4.737	73.146 73.253	52.273 50.997	1.00 46.84	A A
ATOM	1493	CB	ARG A	197	4.976	74.644	50.402	1.00 54.72	A
ATOM ATOM	1494 1495	CD	ARG A		4.749 4.243	75.804 77.010	51.384 50.621	1.00 54.72 1.00 54.72	A A
ATOM	1496	NE	ARG A		4.582	78.285	51.237	1.00 54.72	A
ATOM	1497	CZ	ARG A		4.340	79.459	50.659	1.00 54.72	A
ATOM ATOM	1498 1499	NH2	ARG A		3.755 4.703	79.497 80.592	49.467 51.249	1.00 54.72 1.00 54.72	A A
ATOM	1500	C	ARG A		5.129	72.167	49.986	1.00 46.84	A
ATOM ATOM	1501 1502	N O	ARG A		4.317 6.365	71.298 72.221	49.667 49.491	1.00 46.84 1.00 33.53	A A
ATOM	1503	CA	ILE A	198	6.876	71.260	48.508	1.00 33.53	A
ATOM ATOM	1504 1505	CB CG2	ILE A		6.366 6.661	69.829 68.896	48.798 47.640	1.00 31.98 1.00 31.98	A A
ATOM	1506	CG1	ILE A	198	7.039	69.321	50.082	1.00 31.98	A
ATOM ATOM	1507 1508	CD	ILE A		7.115 6.472	67.786 71.698	50.217 47.114	1.00 31.98 1.00 33.53	A A
ATOM	1509	0	ILE A	198	6.077	70.905	46.284	1.00 33.53	Α
ATOM ATOM	1510 1511	N CA	TRP A		6.622 6.251	72.991 73.655	46.875 45.632	1.00100.07	A A
ATOM	1512	CB	TRP A	199	7.323	74.658	45.251	1.00 99.57	A
ATOM ATOM	1513 1514	CG CD2	TRP A		6.687 6.225	75.861 76.980	44.709 45.466	1.00 99.57 1.00 99.57	A
ATOM	1515	CE2	TRP A		5.583	77.852	44.565	1.00 99.57 1.00 99.57	A A
ATOM	1516 1517	CE3	TRP A		6.292 6.323	77.330 76.086	46.823	1.00 99.57 1.00 99.57	A A
ATOM ATOM	1518		TRP A		5.657	77.280	43.421 43.322	1.00 99.57 1.00 99.57	A
ATOM	1519	CZ2	TRP A		5.005	79.064	44.976	1.00 99.57	A
ATOM ATOM	1520 1521	CZ3 CH2	TRP A		5.719 5.084	78.532 79.386	47.232 46.309	1.00 99.57 1.00 99.57	A A
ATOM	1522	C	TRP A		5.790	72.979	44.352	1.00100.07	A
ATOM ATOM	1523 1524	N O	TRP A		4.617 6.692	72.644 72.835	44.209 43.391	1.00100.07 1.00 68.48	A A
ATOM	1525	CA	THR A		6.319	72.236	42.111	1.00 68.48	A
ATOM ATOM	1526 1527	CB OG1	THR A		6.737 6.139	73.178 74.467	40.936 41.122	1.00 87.15 1.00 87.15	A A
ATOM	1528	CG2	THR A		6.291	72.627	39.594	1.00 87.15	A
ATOM ATOM	1529 1530	С О	THR A		6.976 7.706	70.870 70.386	41.935 42.806	1.00 68.48 1.00 68.48	A A
ATOM	1531	N	ASP A	201	6.692	70.252	40.800	1.00 31.77	A
ATOM ATOM	1532 1533	CA CB	ASP A		7.241 6.380	68.964 67.867	40.483 41.088	1.00 31.77 1.00 88.26	A A
ATOM	1534	CG OD1	ASP A		6.183	68.052	42.561	1.00 88.26	- A
ATOM ATOM	1535		ASP A		5.102 7.117	68.533 67.738	42.952 43.327	1.00 88.26	A A
ATOM	1537	C	ASP A	201	7.385	68.754	38.980	1.00 31.77	Α
ATOM ATOM	1538 1539	N	ASP A GLY A		6.566 8.463	69.236 68.059	38.169 38.618	1.00 31.77 1.00 58.84	A A
ATOM	1540	CA	GLY A	202	8.681	67.736	37.230	1.00 58.84	A
ATOM ATOM	1541 1542	С 0	GLY A GLY A		7.467 6.430	66.868 67.366	36.954 36.485	1.00 58.84 1.00 58.84	A A
ATOM	1543	N	SER A	203	7.580	65.581	37.302	1.00 66.27	Α
ATOM ATOM	1544 1545	CA CB	SER A SER A		6.497 7.030	64.618 63.309	37.102 36.511	1.00 66.27 1.00 89.23	A A
MOTA	1546	OG	SER A	203	7.849	62.622	37.432	1.00 89.23	Α
ATOM ATOM	1547 1548	С 0	SER A		5.691 4.597	64.315 64.856	38.366 38.530	1.00 66.27 1.00 66.27	A A
ATOM	1549	N	VAL A	204	6.243	63.465	39.243	1.00 42.74	Α
ATOM ATOM	1550 1551	CA CB	VAL A		5.610 6.607	63.032 62.209	40.508 41.417	1.00 42.74	A A
ATOM	1552	CG1	VAL A	204	7.944	62.046	40.738	1.00 21.15	A
ATOM	1553 1554	CG2 C	VAL A		6.793 4.972	62.879 64.117	42.764	1.00 21.15	A A
ATOM ATOM	1555	0	VAL A		5.099	65.314	41.390 41.127	1.00 42.74	A A
ATOM	1556 1557	N CA	THR A	205	4.293 3.617	63.684 64.619	42.452 43.348	1.00 21.70	A A
ATOM ATOM	1558	СВ	THR A		2.108	64.347	43.399	1.00 21.70 1.00 74.21	A A

ATOM ATOM	1559 1560	OG1 THR A 205 CG2 THR A 205	1.876 1.521	63.080 64.351	44.030 41.985	1.00 74.21 1.00 74.21	A A
MOTA	1561	C THR A 205	4.120	64.675	44.794	1.00 21.70	A
ATOM	1562	O THR A 205	4.462	63.656	45.402	1.00 21.70	A
ATOM ATOM	1563 1564	N PRO A 206 CD PRO A 206	4.121 3.336	65.890 67.02 4	45.368 44.848	1.00 17.57 1.00 23.29	A A
ATOM	1565	CA PRO A 206	4.563	66.175	46.725	1.00 17.57	A
ATOM	1566	CB PRO A 206	3.730	67.384	47.102	1.00 23.29	A
ATOM ATOM	1567 1568	CG PRO A 206 C PRO A 206	3.667 4.290	68.108 65.002	45.834 47.621	1.00 23.29 1.00 17.57	A A
ATOM	1569	O PRO A 206	5.221	64.344	48.070	1.00 17.57	A
ATOM	1570	N LEU A 207	3.012	64.740	47.883	1.00 66.62	A
MOTA MOTA	1571 1572	CA LEU A 207 CB LEU A 207	2.637 1.264	63.621 63.075	48.739 48.348	1.00 66.62 1.00100.07	A A
ATOM	1573	CG LEU A 207	0.807	61.885	49.197	1.00100.07	A
ATOM ATOM	1574 1575	CD1 LEU A 207 CD2 LEU A 207	0.394 -0.3 4 7	62.392 61.153	50.572 48.516	1.00100.07 1.00100.07	A A
ATOM	1576	C LEU A 207	3.677	62.516	48.567	1.00 66.62	A
MOTA	1577	O LEU A 207	4.303	62.063	49.533	1.00 66.62	A
ATOM ATOM	1578 1579	N GLU A 208 CA GLU A 208	3.861 4.828	62.104 61.073	47.316 46.987	1.00 83.94 1.00 83.94	A A
ATOM	1580	CB GLU A 208	4.791	60.763	45.484	1.00 86.72	A
ATOM	1581	CG GLU A 208	3.448	60.239	44.974	1.00 86.72	A
ATOM ATOM	1582 1583	CD GLU A 208 OE1 GLU A 208	3.461 4.193	59.883 58.946	43.485 43.086	1.00 86.72 1.00 86.72	A A
ATOM	1584	OE2 GLU A 208	2.729	60.544	42.715	1.00 86.72	A
ATOM	1585 1586	C GLU A 208	6.223 6.928	61.548	47.386	1.00 83.94	A
ATOM ATOM	1587	O GLU A 208 N ALA A 209	6.613	60.855 62.732	48.120 46.906	1.00 83.94 1.00 96.12	A A
ATOM	1588	CA ALA A 209	7.929	63.298	47.221	1.00 96.12	A
ATOM ATOM	1589 1590	CB ALA A 209 C ALA A 209	8.053 8.153	64.748 63.282	46.668 48.735	1.00 27.97 1.00 96.12	A A
ATOM	1591	O ALA A 209	9.192	62.824	49.213	1.00 96.12	A
MOTA	1592	N LEU A 210	7.165	63.771	49.480	1.00 44.94	A
ATOM ATOM	1593 1594	CA LEU A 210 CB LEU A 210	7.227 5.929	63.812 64.413	50.93 4 51. 4 82	1.00 44.94 1.00 31.43	A A
ATOM	1595	CG LEU A 210	5.568	64.066	52.931	1.00 31.43	A
ATOM	1596	CD1 LEU A 210	6.619	64,625	53.863	1.00 31.43	A
ATOM ATOM	1597 1598	CD2 LEU A 210 C LEU A 210	4.174 7.464	64.600 62.430	53.278 51.554	1.00 31.43 1.00 44.94	A A
ATOM	1599	O LEU A 210	8.495	62.197	52.201	1.00 44.94	A
ATOM	1600	N ASN A 211	6.508 6.648	61.519 60.172	51.374 51.927	1.00100.07	A
ATOM ATOM	1601 1602	CA ASN A 211 CB ASN A 211	5.497	59.264	51.479	1.00100.07 1.00100.07	A A
MOTA	1603	CG ASN A 211	4.154	59.701	52.033	1.00100.07	A
ATOM ATOM	1604 1605	OD1 ASN A 211 ND2 ASN A 211	3.527 3.711	60.633 59.030	51.527 53.089	1.00100.07 1.00100.07	A A
ATOM	1606	C ASN A 211	7.959	59.609	51.412	1.00100.07	A
ATOM	1607	O ASN A 211	8.701 8.233	58.944 59.883	52.137	1.00100.07	A
ATOM ATOM	1608 1609	N GLN A 212 CA GLN A 212	9.457	59.426	50.144 49.522	1.00 85.92 1.00 85.92	A A
ATOM	1610	CB GLN A 212	9.571	60.013	48.120	1.00100.07	A
ATOM ATOM	1611 1612	CG GLN A 212 CD GLN A 212	10.776 10.393	59.549 58.736	47.342 46.124	1.00100.07	A A
ATOM	1613	OE1 GLN A 212	9.550	59.151	45.323	1.00100.07	A
ATOM	1614	NE2 GLN A 212	11.016 10.605	57.571	45.971	1.00100.07 1.00 85.92	A
ATOM ATOM	1615 1616	C GLN A 212 O GLN A 212	11.534	59.930 59.186	50.382 50.703	1.00 85.92	A A
ATOM	1617	N ALA A 213	10.516	61.200	50.768	1.00 41.35	A
ATOM ATOM	1618 1619	CA ALA A 213 CB ALA A 213	11.546 11.154	61.840 63.271	51.581 51.881	1.00 41.35 1.00 45.50	A A
MOTA	1620	C ALA A 213	11.828	61.112	52.883	1.00 41.35	A
ATOM ATOM	1621 1622	O ALA A 213 N VAL A 214	12.922 10.829	60.579 61.112	53.088 53.761	1.00 41.35 1.00 83.40	A A
ATOM	1623	CA VAL A 214	10.925	60.472	55.069	1.00 83.40	A
ATOM	1624	CB VAL A 214	9.521	60.254	55.678	1.00 48.39	A
ATOM ATOM	1625 1626	CG1 VAL A 214 CG2 VAL A 214	9.196 8.486	61.363 60.244	56.670 54.582	1.00 48.39 1.00 48.39	A A
ATOM	1627	C VAL A 214	11.650	59.136	55.029	1.00 83.40	A
MOTA	1628	O VAL A 214	12.493 11.311	58.839	55.881	1.00 83.40 1.00 68.64	A
ATOM ATOM	1629 1630	N ALA A 215 CA ALA A 215	11.905	58.339 57.024	54.026 53.843	1.00 68.64	A A
ATOM	1631	CB ALA A 215	11.617	56.527	52.434	1.00100.07	A
ATOM ATOM	1632 1633	C ALA A 215 O ALA A 215	13.401 13.874	57.036 56.577	54.093 55.129	1.00 68.64 1.00 68.64	A A
ATOM	1634	N ILE A 216	14.136	57.576	53.129	1.00 99.55	A
MOTA	1635	CA ILE A 216	15.585	57.651	53.204	1.00 99.55	A A
ATOM ATOM	1636 1637	CB ILE A 216 CG2 ILE A 216	16.104 17.570	58.623 58.348	52.160 51.892	1.00 59.90 1.00 59.90	A A
MOTA	1638	CG1 ILE A 216	15.296	58.447	50.872	1.00 59.90	A
ATOM ATOM	1639 1640	CD ILE A 216 C ILE A 216	15.592 16.060	59.487 58.067	49.835 54.590	1.00 59.90 1.00 99.55	A A
ATOM	1641	O ILE A 216	16.869	57.375	55.208	1.00 99.55	A
ATOM	1642	N LEU A 217	15.547	59.193	55.074	1.00 64.91	A

MOTA	1643	CA LEU A 217	15.903	59.698	56.394	1.00 64.91	A
MOTA	1644	CB LEU A 217	14.980	60.861	56.762	1.00 37.93	A
ATOM	1645	CG LEU A 217	14.969	61.401	58.195	1.00 37.93	A
ATOM	1646	CD1 LEU A 217	16.343	61.850	58.656	1.00 37.93	A
ATOM	1647	CD2 LEU A 217	14.007	62.561	58.228	1.00 37.93	A
ATOM	1648	C LEU A 217	15.729	58.560		1.00 64.91	A
ATOM	1649	O LEU A 217	16.632	58.242	58.164	1.00 64.91	A
ATOM	1650	N LYS A 218	14.558	57.939	57.345	1.00 40.33	A
ATOM	1651	CA LYS A 218	14.264	56.828	58.236	1.00 40.33	A
ATOM	1652	CB LYS A 218	12.867	56.267	57.932	1.00100.07	A
ATOM	1653	CG LYS A 218	12.883	55.002	57.080	1.00100.07	A
ATOM	1654	CD LYS A 218	11.633	54.839	56.237	1.00100.07	A
ATOM	1655	CE LYS A 218	11.820	53.728	55.201	1.00100.07	A
ATOM	1656	NZ LYS A 218	10.636	53.558	54.307	1.00100.07	A
ATOM	1657	C LYS A 218	15.313	55.737	58.027	1.00 40.33	A
ATOM	1658	O LYS A 218	15.919	55.237	58.980	1.00 40.33	A
ATOM	1659	N GLU A 219	15.509	55.399	56.752	1.00 47.87	A
ATOM	1660	CA GLU A 219	16.434	54.370	56.286	1.00 47.87	A
ATOM	1661	CB GLU A 219	16.394	54.331	54.759	1.00 87.82	A
ATOM	1662	CG GLU A 219	17.156	53.201	54.110	1.00 87.82	A
ATOM	1663	CD GLU A 219	16.986	53.206	52.595	1.00 87.82	A
ATOM	1664	OE1 GLU A 219	15.837	53.058	52.115	1.00 87.82	A
ATOM	1665	OE2 GLU A 219	18.000	53.364	51.882	1.00 87.82	A
ATOM	1666	C GLU A 219	17.852	54.641		1.00 47.87	A
ATOM	1667	O GLU A 219	18.588	53.716	57.096	1.00 47.87	A
ATOM	1668	N HIS A 220	18.239	55.912		1.00 65.57	A
ATOM	1669	CA HIS A 220	19.570	56.281	57.237	1.00 65.57	A
ATOM	1670	CB HIS A 220	19.877	57.739	56.929	1.00 34.75	A
ATOM	1671	CG HIS A 220	20.172	58.005	55.489	1.00 34.75	A
ATOM	1672	CD2 HIS A 220	19.422	58.576	54.516		A
ATOM	1673 1674	ND1 HIS A 220 CE1 HIS A 220	21.384 21.369	57.700 58.076	54.912	1.00 34.75	A A
ATOM ATOM	1675 1676	NE2 HIS A 220 C HIS A 220	20.191 19.613	58.611	53.380	1.00 34.75	A A
ATOM ATOM	1677 1678	O HIS A 220 N LEU A 221 CA LEU A 221	20.464 18.688 18.591	55.380 56.748	59.255 59.422	1.00 65.57 1.00 50.48	A A
ATOM ATOM ATOM	1679 1680 1681	CB LEU A 221 CG LEU A 221	17.158 16.772	56.645 56.994 58.342	60.869 61.308 61.941	1.00 50.48 1.00 48.41 1.00 48.41	A A A
ATOM ATOM	1682 1683	CD1 LEU A 221 CD2 LEU A 221	17.653 16.900	58.559 59.501	63.162	1.00 48.41	A A
ATOM ATOM	1684 1685	C LEU A 221 O LEU A 221	18.941 19.723	55.227 55.030	61.336	1.00 50.48	A A
ATOM ATOM	1686 1687	N ASN A 222 CA ASN A 222	18.359 18.589	54.238 52.845	60.666	1.00 79.78	A A
ATOM	1688	CB ASN A 222	17.833	51.948	60.042	1.00 64.26	A
ATOM	1689	CG ASN A 222	16.330	52.115	60.167	1.00 64.26	A
ATOM	1690	OD1 ASN A 222	15.777	52.007	61.261	1.00 64.26	A
ATOM	1691	ND2 ASN A 222	15.662	52.381	59.050	1.00 64.26	A
ATOM	1692	C ASN A 222	20.057	52.466	61.093	1.00 79.78	A
ATOM	1693	O ASN A 222	20.462	51.742	61.995	1.00 79.78	A
ATOM	1694	N TYR A 223	20.859	52.971	60.166	1.00 81.32	A
ATOM	1695	CA TYR A 223	22.280	52.670	60.169	1.00 81.32	A
MOTA	1696	CB TYR A 223	23.029	53.617	59.234	1.00 81.85	A
MOTA	1697	CG TYR A 223	22.680	53.484	57.769	1.00 81.85	A
ATOM	1698	CD1 TYR A 223	22.719	52.249	57.137	1.00 81.85	A
ATOM	1699	CE1 TYR A 223	22.450	52.132	55.795		A
ATOM	1700	CD2 TYR A 223	22.357	54.606	57.009	1.00 81.85	A
ATOM	1701	CE2 TYR A 223	22.087	54.502	55.669		A
ATOM ATOM	1702 1703	CZ TYR A 223 OH TYR A 223	22.135 21.868	53.261 53.139	55.064 53.719	1.00 81.85	A
ATOM ATOM ATOM	1704 1705	C TYR A 223 O TYR A 223 N PHE A 224	22.867 23.876 22.243	52.786 52.152 53.589	61.574 61.874 62.436	1.00 81.32 1.00 81.32 1.00 65.20	A A A
ATOM ATOM ATOM	1706 1707 1708	CA PHE A 224 CB PHE A 224	22.755 22.710	53.765 54.988	63.799 64.473	1.00 65.20 1.00 70.91	A A
ATOM ATOM	1709 1710	CG PHE A 224 CD1 PHE A 224	22.403 21.497	56.303 56.852	63.781	1.00 70.91	A A
ATOM	1711	CD2 PHE A 224	23.596	56.977	64.015	1.00 70.91	A
ATOM	1712	CE1 PHE A 224	21.772	58.043	62.224	1.00 70.91	A
ATOM	1713	CE2 PHE A 224	23.878	58.168	63.362	1.00 70.91	A
ATOM	1714	CZ PHE A 224	22.962	58.701	62.463	1.00 70.91	A
ATOM	1715	C PHE A 224	22.515	.52.510	64.644	1.00 65.20	A
ATOM	1716	O PHE A 224	22.260	52.576	65.850	1.00 65.20	A
ATOM	1717	N ALA A 225	22.621	51.362	63.987	1.00 42.35	A
ATOM	1718	CA ALA A 225	22.412	50.070	64.618	1.00 42.35	A
ATOM ATOM	1719 1720	CB ALA A 225 C ALA A 225	22.202	49.004 49.668	63.547	1.00100.07	A A
ATOM	1721	O ALA A 225	24.054	50.485	66.297	1.00 42.35	A
ATOM	1722	N ASN A 226	23.981		65.421	1.00 61.29	A
ATOM	1723	CA ASN A 226	25.074	47.880	66.240	1.00 61.29	A
ATOM	1724	CB ASN A 226	25.162	46.352	66.127	1.00100.07	A
ATOM	1725	CG ASN A 226	24.423	45.635	67.257	1.00100.07	A
ATOM	1726	OD1 ASN A 226	24.404	44.402	67.322	1.00100.07	A